

### Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

# Sec. 2: Deck Mechanism Section

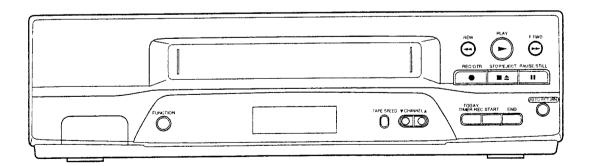
- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Front Loading Assembly
- Alignment Procedures of Mechanism

# Sec. 3: Exploded Views and Parts List Section

- Exploded Views
- Parts List

# 4 head Hi-Fi 4VIDEO CASSETTE RECORDER

19A-600 / 19A-604 / 19A-620 / 19A-624





# MAIN SECTION

# 4 head Hi-Fi VIDEO CASSETTE RECORDER

# 19A-600 / 19A-604 / 19A-620 / 19A-624

# Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

# **TABLE OF CONTENTS**

Specifications	1-1-1
Important Safety Precautions	1-2-1
Standard Notes for Servicing	1-3-1
Preparation for Servicing	1-4-1
Cabinet Disassembly Instructions	1-5-1
Electrical Adjustment Instructions	1-6-1
Block Diagrams	1-7-1
Function Indicator Symbols	1-7-15
Schematic Diagrams / CBA's and Test Points	1-8-1
Waveforms	1-9-1
WaveformsWiring Diagram	1-10-1
System Control Timing Charts	1-11-1
IC Pin Function	1-12-1
Lead Identifications	1-13-1
680   IDENTITICATIONS	0

# **SPECIFICATIONS**

Description	Unit	Minimum	Nominal	Maximum	Remark
1. Video					
1-1. Video Output (PB)	Vp-p	0.8	1.0	1.2	FL6A
1-2. Video Output (R/P)	Vp-p	0.8	1.0	1.2	
1-3. Video S/N Y (R/P)	dB	40	45		SP Mode, W/O Burst
1-4. Video Color S/N AM (R/P)	dB	37	41		SP Mode
1-5. Video Color S/N PM (R/P)	dB	30	36		SP Mode
1-6. Resolution (PB)	Line	230	245		SP Mode
2. Servo					
2-1. Jitter Low (R/P)	μѕес		0.07	0.12	SP Mode
2-2. Wow & Flutter (R/P)	%		0.3	0.5	SP Mode
3. Normal Audio					
3-1. Output (PB)	dBV	-9	-6	-3	SP Mode
3-2. Output (R/P)	dBV	-9	-6	-1.5	SP Mode
3-3. S/N (R/P)	dB	36	41		SP Mode
3-4. Distortion (R/P)	%		1.0	4.0	SP Mode
3-5. Freq. resp (R/P) at 200Hz	dB	-11	-4		SP Mode
(-20dB ref. 1kHz) at 8kHz	dB	-14	-4		SP Mode
4. Tuner					
4-1. Video output (E-E)	Vp-p	0.8	1.0	1.2	E-E Mode
4-2. Video S/N (E-E)	dB	39	42		E-E Mode
4-3. Audio output (E-E)	mV/rms	250	400	550	E-E Mode
4-4. Audio S/N (E-E)	dB	40	46		E-E Mode
5. Hi-Fi Audio					Marie 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 1990, 19
5-1. Output	dBV	-20	-8	-12	SP Mode
5-2. Dynamic Range	dB	70	85		SP Mode
5-3. Freq. resp (6dB B. W)	Hz		20~20K		SP Mode

**Note:** Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

1-1-1 H4900SP

# IMPORTANT SAFETY PRECAUTIONS

# **Product Safety Notice**

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a A on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

# Precautions during Servicing

- A. Parts identified by the ∧ symbol are critical for safety. Replace only with part number specified.
- **B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.

Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

- C.Use specified internal wiring. Note especially:
- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads
- D. Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation tape
- 2) PVC tubing
- 3) Spacers
- 4) Insulators for transistors
- **E.** When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- **F.** Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- **G.**Check that replaced wires do not contact sharp edges or pointed parts.
- H. When a power cord has been replaced, check that5 6 kg of force in any direction will not loosen it.

- I. Also check areas surrounding repaired locations.
- J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K. Crimp type wire connector

The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.

Replacement procedure

- 1) Remove the old connector by cutting the wires at a point close to the connector.
  - Important: Do not re-use a connector. (Discard it.)
- 2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
- 3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
- 4) Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.
- L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

# Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

# 1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Clearance Distance (d) (d')
230 to 240 V	≥ 3mm(d) ≥ 6 mm(d')

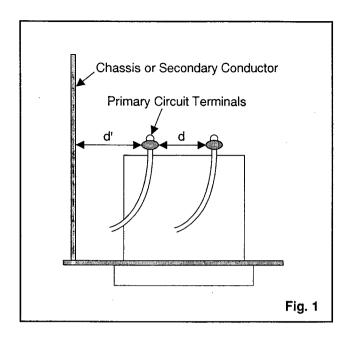
**Note:** This table is unofficial and for reference only. Be sure to confirm the precise values.

# 2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

#### Measuring Method (Power ON):

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.



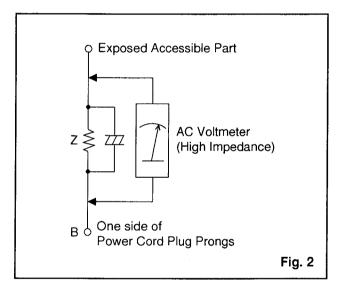


Table 2: Leakage current ratings for selected areas

AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
230 to 240 V	2kΩ RES. Connected in parallel i≤0.7mA AC Peak i≤2mA DC		RF or Antenna terminals
250 to 240 V	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

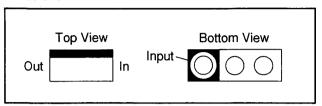
1-2-2

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

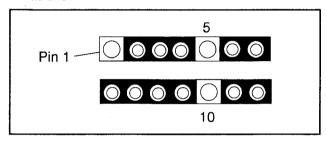
# STANDARD NOTES FOR SERVICING

### **Circuit Board Indications**

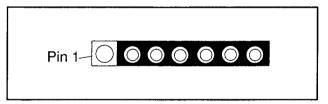
a. The output pin of the 3 pin Regulator ICs is indicated as shown.



 b. For other ICs, pin 1 and every fifth pin are indicated as shown.

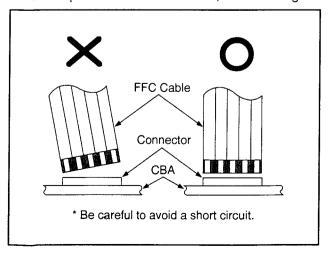


c.The 1st pin of every male connector is indicated as shown.



### **Instructions for Connectors**

- When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
- 2.FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.

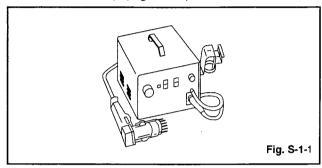


## How to Remove / Install Flat Pack-IC

#### 1. Removal

#### With Hot-Air Flat Pack-IC Desoldering Machine:

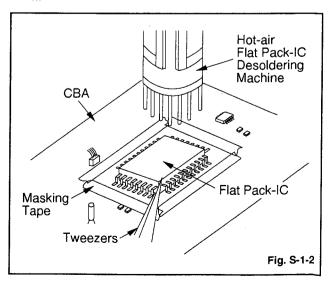
(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)



- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

#### Caution:

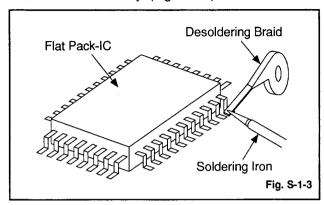
- Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
- The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.



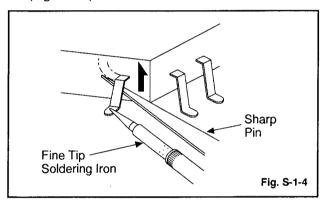
**U14NOTE** 

#### With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)



- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

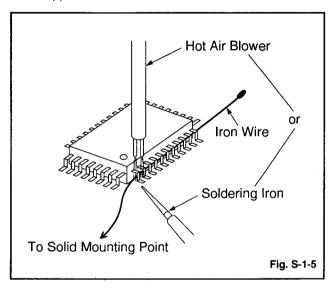
#### With Iron Wire:

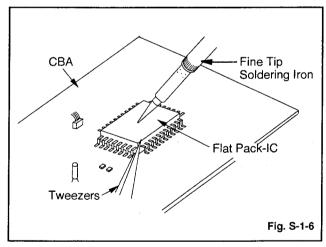
- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
- (4)Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply

- soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

#### Note:

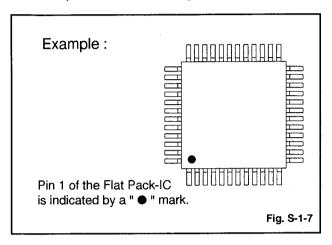
When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

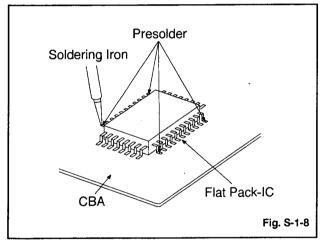




#### 2. Installation

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The " " mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then pre-solder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.





# Instructions for Handling Semiconductors

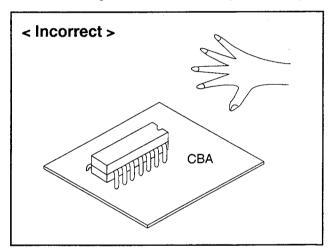
Electrostatic breakdown of the semiconductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

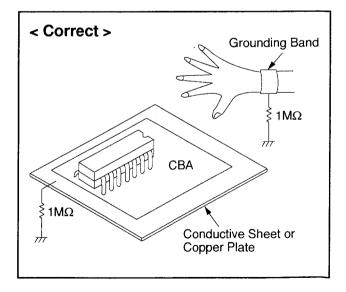
# 1. Ground for Human Body

Be sure to wear a grounding band (1  $M\Omega$ ) that is properly grounded to remove any static electricity that may be charged on the body.

## 2. Ground for Workbench

Be sure to plage a conductive sheet or copper plate with proper grounding (1M $\Omega$ ) on the workbench or other surface, where the semiconductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semiconductors with your clothing.





# PREPARATION FOR SERVICING

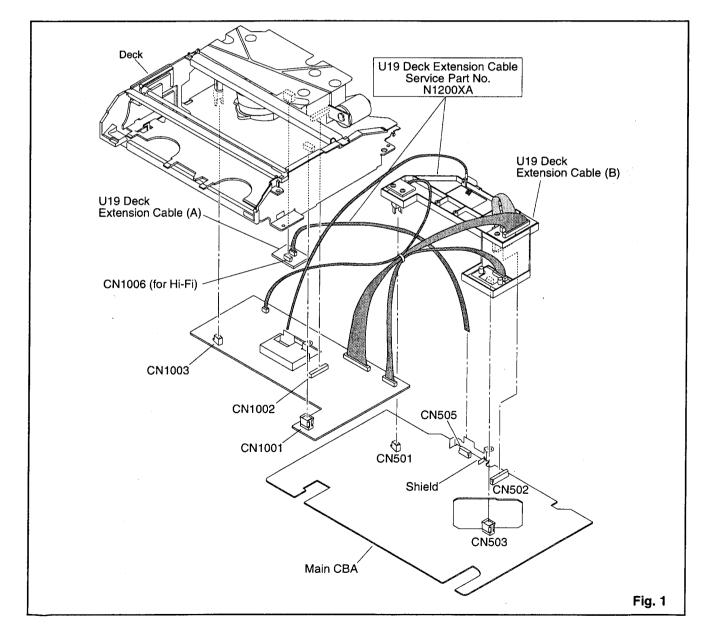
# How to Use U19 Deck Extension Cable

- (1) Remove the Deck Mechanism Assembly. If needed, remove the Main CBA from the chassis. Refer to "Cabinet Disassembly Instructions" on page 1-5-1.
- (2) Connect Main CBA and Deck with the U19 Deck Extension Cable (A) as shown in Fig. 1. And connect Main CBA and Deck with U19 Deck Extension Cable (B) as shown in Fig. 1. Connect 2 Clips on U19 Deck Extension Cable (B) to Shield on Main CBA.

(U19 Deck Extension Cable: N1200XA)

**Note 1:** There are 3 types of U19 Deck Extension Cable (A). They are for 2 Head, 4 Head, and Hi-Fi. Use a connector indicated as shown. Be careful not to let the unused connector contact other parts.

**Note 2:** Some noise will be present in the playback picture when the extension cable is used.



## How to Enter the Service Mode

**Note:** When the unit is set in the service mode, the display will keep blinking.

#### **About Optical Sensors**

#### Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

#### What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect TP502 (SENSOR INHIBITION) to TP501 (GROUND). This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 2.

**Note:** Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

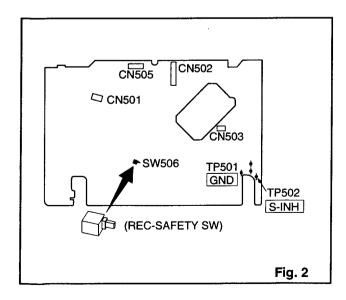
#### About REC-Safety Switch

#### Caution:

The REC-Safety Switch is directly mounted on the Main CBA. When the Deck Mechanism Assembly is removed from the Main CBA for servicing, this switch does not work automatically.

#### What to do for preparation

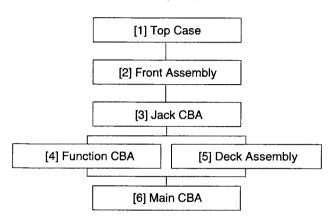
In order to record, press the Rec button while pushing REC-SAFETY SW on the Main CBA. See Fig. 2.



# CABINET DISASSEMBLY INSTRUCTIONS

# 1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling. follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



# **Disassembly Method**

		REMOVAL				
ID/ LOC. No.	PART	Fig. No.	REMOVE/ *UNHOOK/UNLOCK/ RELEASE/UNPLUG/ DESOLDER	Note		
[1]	Top Case	1	5(S-1)	-		
[2]	Front Assembly	2, 3	*7(L-1)	1		
[3]	Jack CBA	4	3(S-2), (CN901)	-		
[4]	Function CBA	2, 5	*(L-2), (CN505)	2		
[5]	Deck Assembly	6	5(S-3), (CN251, CN501, CN503, CN505)	3		
[6]	Main CBA	5, 7	3(S-4), *2(L-3)	4		
<del>1</del>	2	↓ ③	<u> </u>	→ ⑤		

- 1: Identification (location) No. of parts in the figures
- (2): Name of the part
- 3: Figure Number for reference
- 4: Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, L=Locking Tab, S=Screw,

CN=Connector

\*=Unhook, Unlock, Release, Unplug, or Desolder

e.g. 2(S-2) = two Screws (S-2),

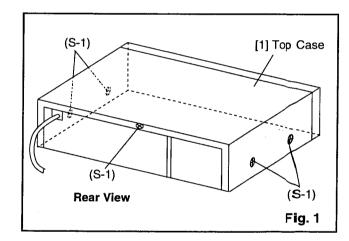
2(L-2) = two Locking Tabs (L-2)

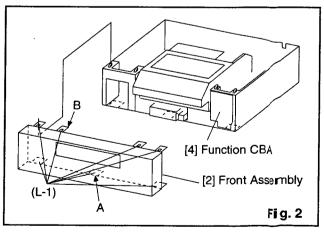
5:Refer to "Reference Notes."

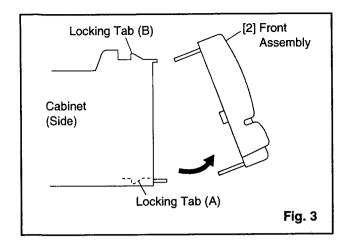
#### **Reference Notes**

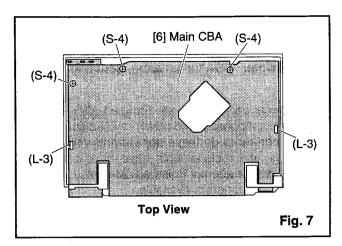
CAUTION: Locking Tabs (L-1) are fragile. Be careful not to break them.

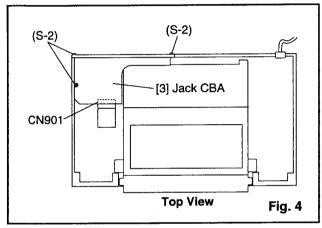
- 1. Release 7 Locking Tabs (L-1). To do this, first release three Locking Tabs (A) at the bottom, and then four Locking Tabs (B) at the top. (Fig. 2, 3)
- 2. Disconnect Connector (CN505) to remove Function CBA. Hold Main CBA while pulling up on the Function CBA. (Fig. 5)
- 3. Remove 5 Screws (S-3). Then slowly lift the Deck Assembly up. Lifting Deck Assembly disconnects 4 Connectors (CN251, CN501, CN503, CN505). (Fig. 6)
- 4. When reassembling the unit, always reinsert Locking Tabs (L-3), and then reinstall Screws (S-4). These screws are critical for proper shielding of the Main CBA. (Fig. 7)

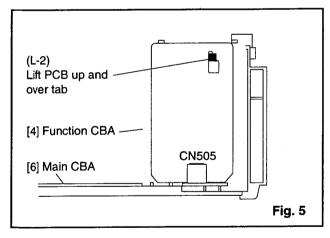


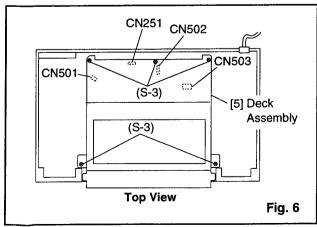












# **ELECTRICAL ADJUSTMENT INSTRUCTIONS**

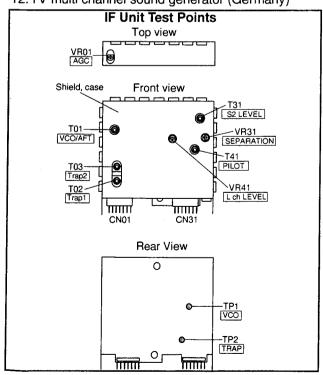
General Note: "CBA" is an abbreviation for "Circuit Board Assembly".

#### Notes:

- Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
- 2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either channel "▼" or "▲" button first, then the " PLAY " button (VCR's Front Panel only).

# **Test Equipment Required**

- 1. Oscilloscope: Dual-trace with 10:1 probe, V-Range: 0.001~50V/Div., F-Frange: AC~DC-20MHz
- 2. PAL Pattern Generator (color bar with 100% white)
- 3. Alignment Tape (FL6A)
- 4. Blank Tape (Available Locally)
- 5. Spectrum Analyzer
- 6. TV UP Converter
- 7. DC Voltmeter
- 8. AC Voltmeter
- 9. Distortion meter
- 10.TV Modulator
- 11.TV Monitor
- 12.TV multi channel sound generator (Germany)



# 1. Head Switching Position Adjustment

**Purpose:** To determine the Head Switching point during playback.

**Symptom of Misadjustment:** May cause Head Switching noise or vertical jitter in the picture.

Ownering holse of vertical juder in the picture.							
Test Point	Adj. Point	Mode	Input				
TP751(V-OUT) TP302(RF-SW) GND	VR501 (SW-P)	PLAY (SP)					
Таре	Measurement Equipment	Sp	ec.				
FL6A	Oscilloscope		<del>l</del> ±1Η '±60μs)				
Connections	s of Measuremen	t Equipr	nent				
Oscilloscope  TP751  CH1  CH2  TP302  Trig. (+)							
	Figure 1						
EXT. Synchronize Trigger Point  CH1  1.0H  Switching Pulse							

#### **Reference Note:**

TP302, TP751, VR501: Main CBA

 Play back the test tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the 6.5H(412.7µs) delayed position from the rising edge of the CH2 head switching pulse waveform.

# 2. IF Unit Adjustment 1

Note: Remove the IF unit from the Main CBA.

# 2-1. Adjacent Channel Trap Adjustment 1

Purpose: To comply IF for local radio wave regulation.

Symptom of Misadjustment: If may cause the noise in picture that audio IF may affect to video IF.

If the frequency of trap overlape on video IF, IC input level WII be lower and The S/N ratio will be lower.

		·		
Test Point	Adj. Point	Mode	Input	
Pin2 of CN01 TP2 (TRAP)	T02 (Trap1)		31.9MHz (70dBµV sine wave)	
Tape	Measurement Equipment		Spec.	
44	Standard Signal Generator/ Oscilloscope/ Spectrum Analyzer			
Connection	ons of Measurem	ent Equ	uipment	
		Specti	rum Analyzer	
Star	oderd Signal Genera		In o	
IF CBA	GND TP2		O Out	

#### **Reference Notes:**

Pin2 of CN01, T02, TP2: IF CBA (IF unit)

- 1. Input Signal to Pin2 of CN01.
- 2. Adjust core of Coil T02 so that the waveform level becomes minimum.

# 2-2. Adjacent Channel Trap Adjustment2

Purpose: To comply IF for local radio wave regulation.

Symptom of Misadjustment: If may cause the noise in picture that audio IF may affect to video IF.

If the frequency of trap overlape on video IF, IC input level WII be lower and The S/N ratio will be lower.

Adj. Point	Mode	Input
T03 (Trap2)		41.4MHz (70dBμV sine wave)
Measurement Equipment		Spec.
Standard Signal Generator/ Oscilloscope/ Spectrum Analyzer		
ons of Measurem	ent Equ	uipment
	Specti	rum Analyzer
nderd Signal Genera	tor	
Outo		In O
CN01 (pin2) GND FP2		Out CH1
	T03 (Trap2)  Measurement Equipment  Standard Signal Generator/ Oscilloscope/ Spectrum Analyzer  ons of Measurem  Out o	T03 (Trap2)  Measurement Equipment  Standard Signal Generator/ Oscilloscope/ Spectrum Analyzer  Ons of Measurement Equipment  Spectrum Analyzer  Out o  CN01(pin2)  GND  Oscilloscope/ Spectrum Spectrum  Out o

#### **Reference Notes:**

Pin2 of CN01, T03, TP2: IF CBA (IF unit)

- 1. Input Signal to Pin1 of CN01.
- 2. Adjust core of Coil T03 so that the waveform level becomes minimum.

# 3. IF Unit Adjustment 2

Note: Install the IF unit on Main CBA.

# 3-1. VCO Adjustment

Purpose: To adjust IF signal to optimum frequency .

Symptom of Misadjustment: Tunning will result unsyncronized

Test Point	Adj. Point	Mode	Input	
Pin7 of CN01 TP1(VCO)	T01 (VCO)			
Таре	Measurement Equipment		Spec.	
	Oscilloscope Spectrum Analyzer	38.9MHz		
Connection	ons of Measurem	ent Equ	uipment	
IF CBA	+5V Line TP1 GND N01(pin7)	Oscill	oscope Out CH1	

#### **Reference Notes:**

Pin7 of CN01, TP1, T01: IF CBA (IF Unit)

- Connect PCB Jumper between TP1 and +5V line.
   Operate the IFunit for at least 5minutes. (See above Figure.)
- Adjust T01 (VCO) so that the VCO of the frequency becomes following value.
  - \*IF frequency= 38.9MHz

## 3-2. AFT Adjustment

**Purpose:** To adjust AFT effective rang which correct uncyncronized tuning after tuner preset.

**Symptom of Misadjustment:** May cause uncyncronized tuning after tuner preset.

Test Poi	nt	Adj. Point	Mode	Input	
Pin2 of CN	<b>V</b> 01	T01 (VCO)		Color Bar with 100% white	
Таре		Measurement Equipment		Spec.	
*****		TV modulator UP converter Pattern Generator Spectrum Analyzer	38.9MHz± 25kHz		
Conn	ectio	ons of Measurem	ent Equ	uipment	
Pattern Generator  Out O  V-Out A-Out					
		UP converter	V-Ir		
RF-IN	(Con	*	L		
Main CBA Spectrum Analyzer					
IF CBA	GNI			- In O	

#### **Reference Notes:**

Pin2 of CN01, T01: IF CBA (IF Unit)

- 1. Set the tuner in preset mode then tune to the following frequency.
  - \*Tuner reception frequency = 203.25MHz (VHF-H renge)
  - \*Electric field strength: 70dBµV
- 2. Cancel the preset mode.
- Adjust core of Coil T01 so that the IF frequency.becomes following value.

\*IF frequency= 38.9MHz± 25kHz

Note: Set the range of Adjust Spectrum Analyzer 500kHz.

# 4. AGC Adjustment

Note: Install the IF unit in Main CBA.

Purpose: To adjust the strength of received air signal.

**Symptom of Misadjustment:** May cause noise or beat in the picture.

						<del></del>
Test Poi	nt	Adj.	Point		Mode	Input
Pin1 of CN	J01	VR01 (AGC)			Color Bar with 100% white	
Tape			irement pment			Spec.
		TV modulator UP converter Pattern Generator DC Voltmeter		DC 1.8V±0.1V		
Conn	ectio	ons of M	leasurer	ne	ent Equ	ipment
Pattern Generator TV modulator  Out O In  V-Out A-Out						
			converte	r [	V-In → Out	A-In
RF-IN	(Con	verter)		L		
Main CBA						voltmeter
IF CBA	GN			١		† ō
	CN	01(pin1)	(	<i>†</i>		

#### **Reference Notes:**

Pin1 of CN01, VR01: IF CBA (IF unit)

- 1.Set the tuner in preset made and tune to the following frequency.
  - \*Tuner reception frequency = 203.25MHz (VHF-H renge)
  - \*Electric field strength: 70dBµV
- 3. Adjust VR01 so that the voltage of AGC becomes the following level.
  - \*DC voltmeter level=DC 1.8V±0.1V

# 5. Sound Multiple Unit Adjustment

#### Notes:

- 1. Output the color bar with 100% white from the video pattern generator, then make 87.5% modulation by the TV modulator.
- 2. Output the 1kHz Stereo 100% signal from the sound generator, then set 27kHz deviation exactly by the sound generator.
- 3. Set the sound generator to: Tone: 1kHz, Mode: Stereo.
- 4. Set the TV up converter to  $70dB\mu$ , (203.25MHz) then set the channel.

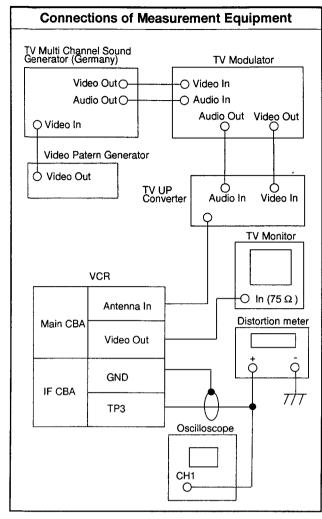
# 5-1. S2 Level Adjustment

Note: Install the IF unit in Main CBA.

Purpose: To minimize the audio distortion.

**Symptom of Misadjustment:** May cause audio distortion.

Test Point	Adj. Point	Adj. Point Mode	
Antenna In Video Out GND TP3	T31 (S2 LEVEL)		
Таре	Measurement Equipment	,	Spec.
<b>3</b> 21	TV monitor/ TV multi channel sound generator (Germany) / TV modulator/ UP converter/ Pattern Generator/ Oscilloscope/ Distortion meter		



#### **Reference Note:**

Antenna In, Video Out: Main CBA TP3, T31: IF CBA (IF unit)

1. Set the tuner in preset made and tune to the following frequency.

\*Tuner reception frequency = 203.25MHz (VHF-H renge)

\*Electric field strength: 70dBµV

2. Adjust core of coil T31 so that the audio distortion becomes maximum level.

# 5-2. Pilot Adjustment

**Purpose:** To set the Stereo and Sound multiple distinct signal becomes maximum level.

**Symptom of Misadjustment:** If pilot adjustment is incorrect, Stereo and Sound multiple function may not distinct properly.

not distinct properly.				
Test Point	Adj. Poin	t	Mode	Input
Antenna In Video Out GND TP4	T41 (PILOT)			
Таре		Measurement Equipment		Spec.
	TV monitor/ TV multi channel sound generator (Germany) / TV modulator/ UP converter/ Pattern Generator/ Oscilloscope			
Connec	tions of <b>Me</b> asu	reme	ent Equ	ipment
Aud O Video In	eo Out O	-O Ai	Audio In	Video Out
Main CBA	Antenna In Video Out			Oscilloscope
IF CBA	GND		1 [	
	TP4		<del>() L</del>	CH1 -O

## Reference Note:

Antenna In, Video Out: Main CBA TP4, T41: IF CBA (IF unit)

 Set the tuner in preset made and tune to the following frequency.

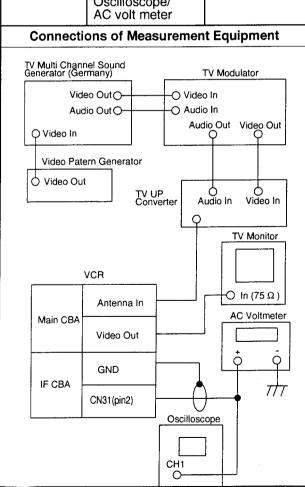
- \*Tuner reception frequency = 203.25MHz (VHF-H renge)
- \*Electric field strength: 70dBµV
- 2. Adjust core of coil T41 so that the pilot signal becomes maximum level.

# 5-3. Output Level Adjustment

Purpose: To set the Audio output level correctly.

**Symptom of Misadjustment:** If output level adjustment is incorrect, Tuner (Sound multiple) audio level may not becomes properly.

Test Point	Adj. Point	Mode	Input
Antenna In Video Out GND 2pin of CN31 (Lch)	VR41 (Lch LEVEL) —		R ch off
Tape	Measurement Equipment	Spec.	
	TV monitor/ TV multi channel sound generator (Germany) / TV modulator/ UP converter/ Pattern Generator/ Oscilloscope/ AC volt meter		mV rms



#### **Reference Note:**

Antenna In, Video Out: Main CBA CN31, VR41: IF CBA (IF unit)

- 1. Set the tuner in preset made and tune to the following frequency.
  - \*Tuner reception frequency = 203.25MHz (VHF-H renge)
  - \*Electric field strength: 70dBµV
- Set the TV multi channel sound generator (Germany) to: Output R ch: off
- Adjust 2pin of CN31(L ch) so that the output level becomes 250mV rms.

# 5-4. Separation Adjustment

**Caution:** Do not attempt to do this adjustment without the specified equipment.

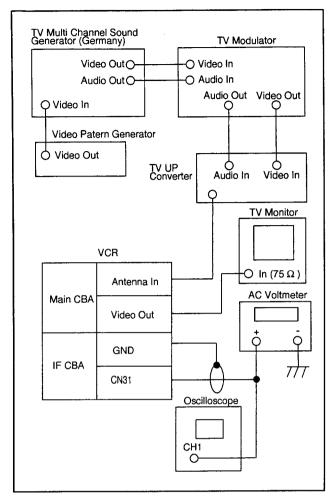
### Purpose:

To set the audio output level of the tuner properly.

#### **Symptom of Misadjustment:**

Audio signal of L ch and R ch may be mixed under E-E and/or Rec mode.

CN301(Lch)	VR31 PARATION)	E-E	L ch off
Tana Mea			
Tape Eq	surement uipment	Spec.	
T char ge (Ge TV I UP Ge Osc	monitor/ V multi nnel sound enerator ermany) / modulator/ converter/ Pattern enerator/ cilloscope/ volt meter	•	



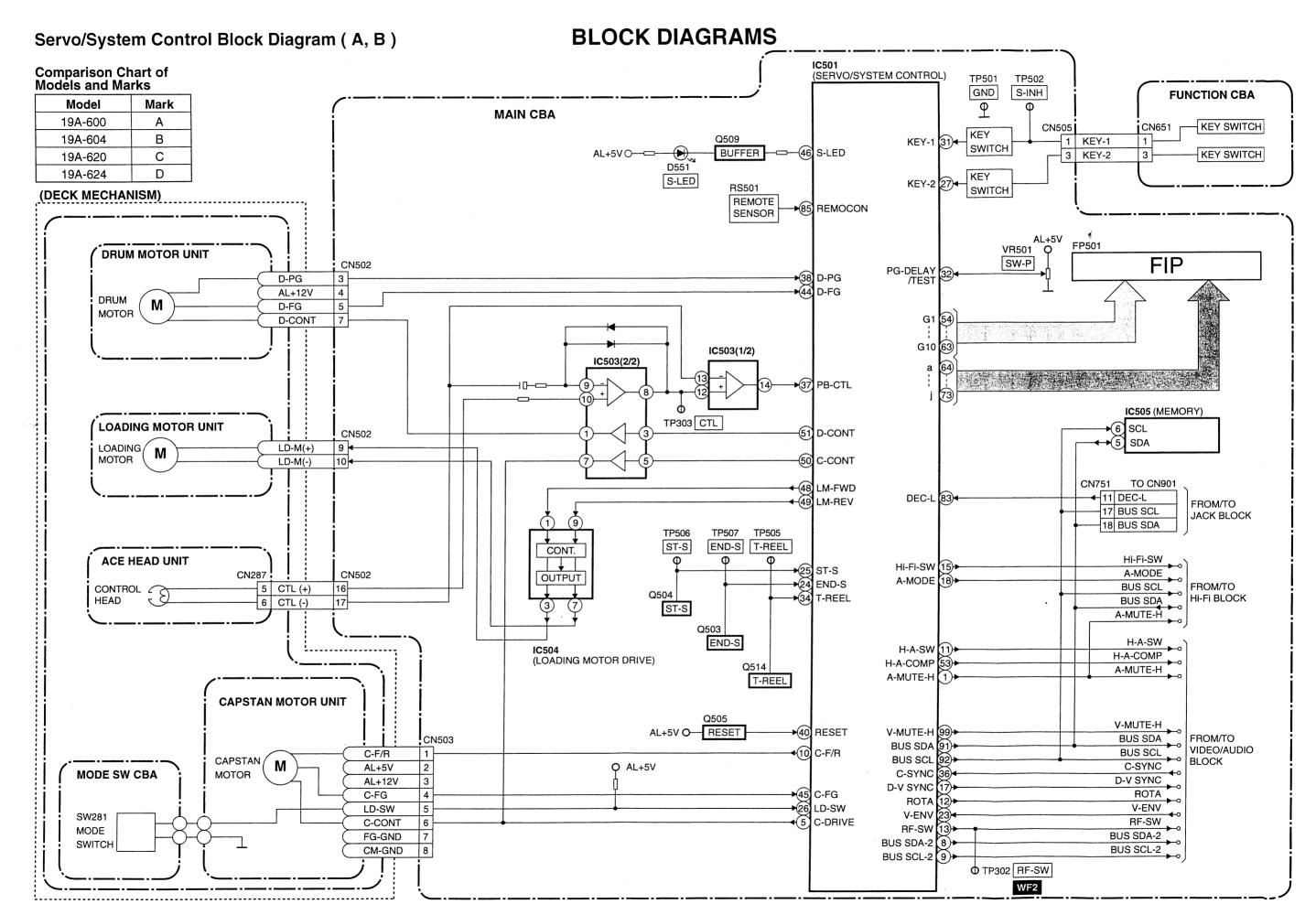
#### **Reference Notes:**

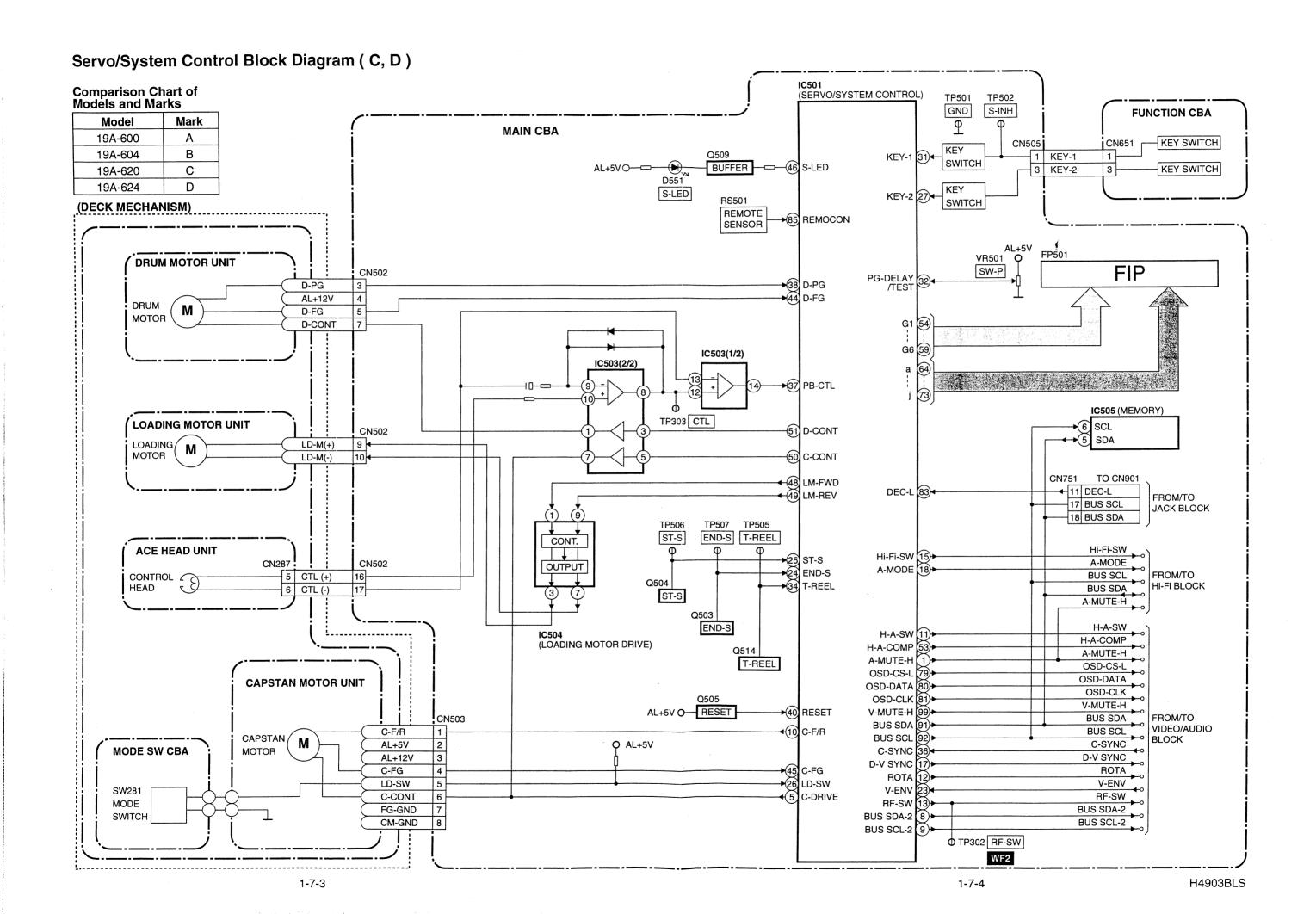
Antenna In, Video Out

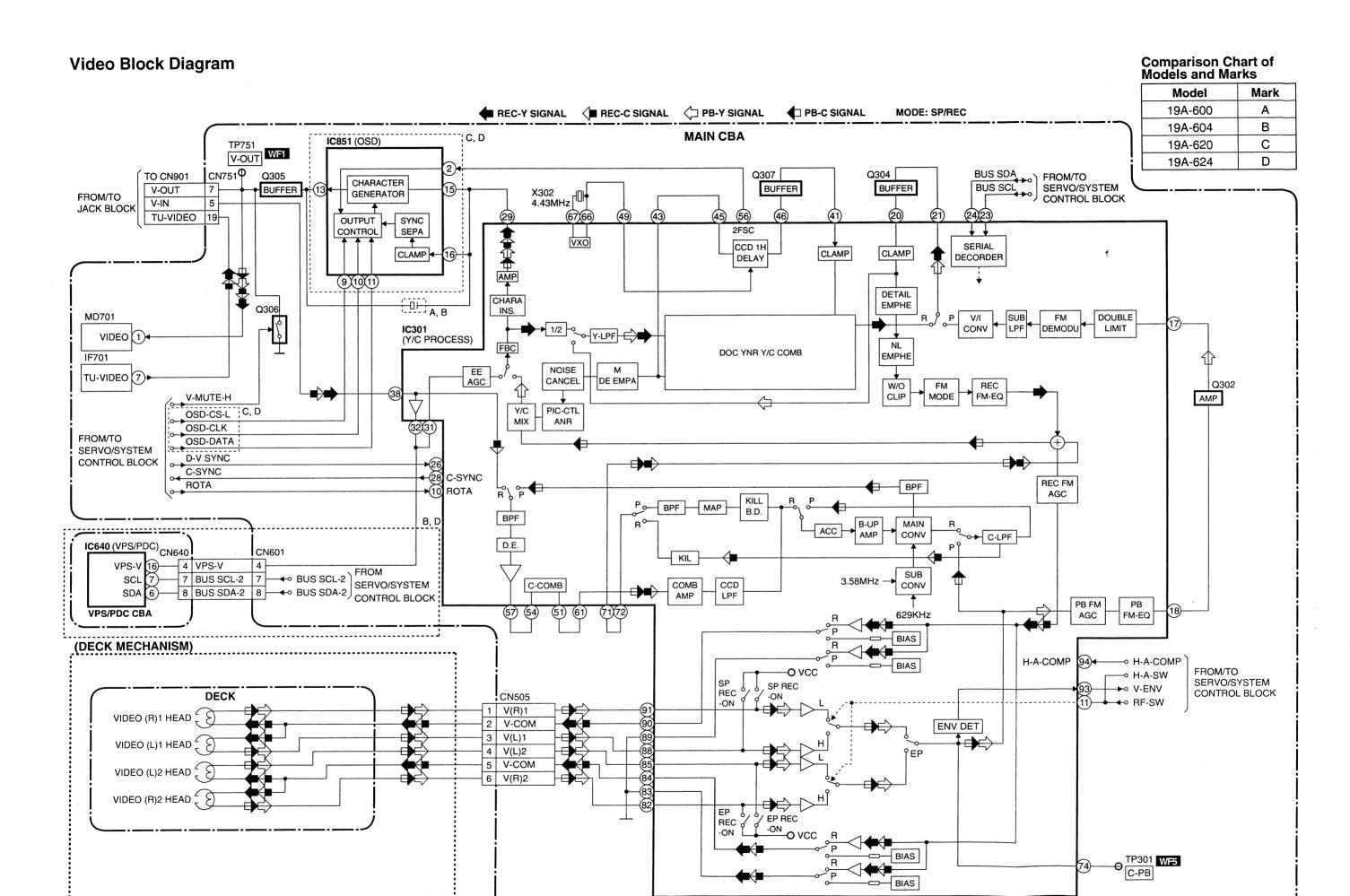
CN31, VR31: IF CBA (IF unit)

 Set the TV multi channel sound generator (Germany) to: Output L ch: off

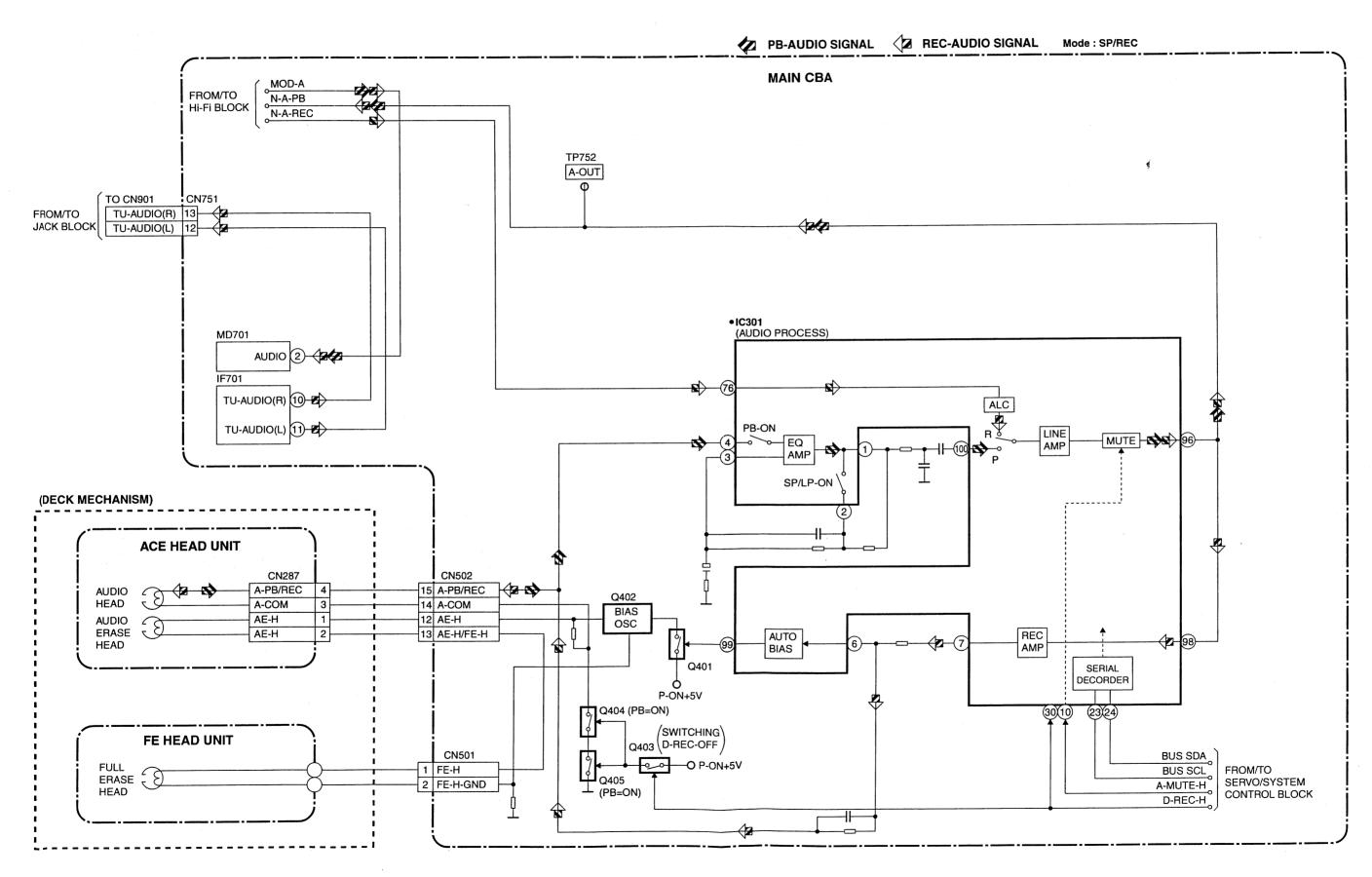
- 2. Adjust 2pin of CN31(L ch) so that the output signal becomes minimam level.
- 3. Check 1pin of CN31(R ch) so that the output signal becomes 250mVrms level.







# **Audio Block Diagram**



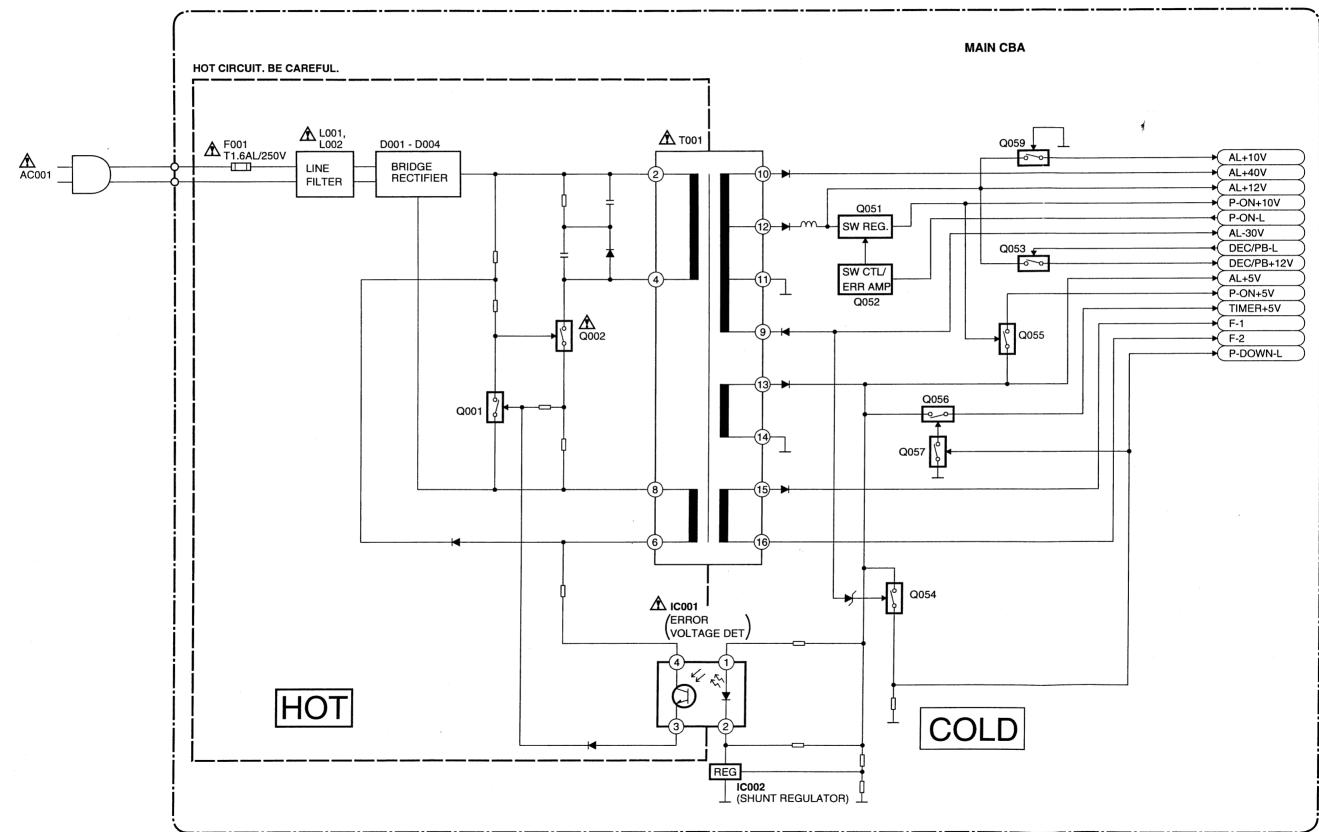
# **Power Supply Block Diagram**

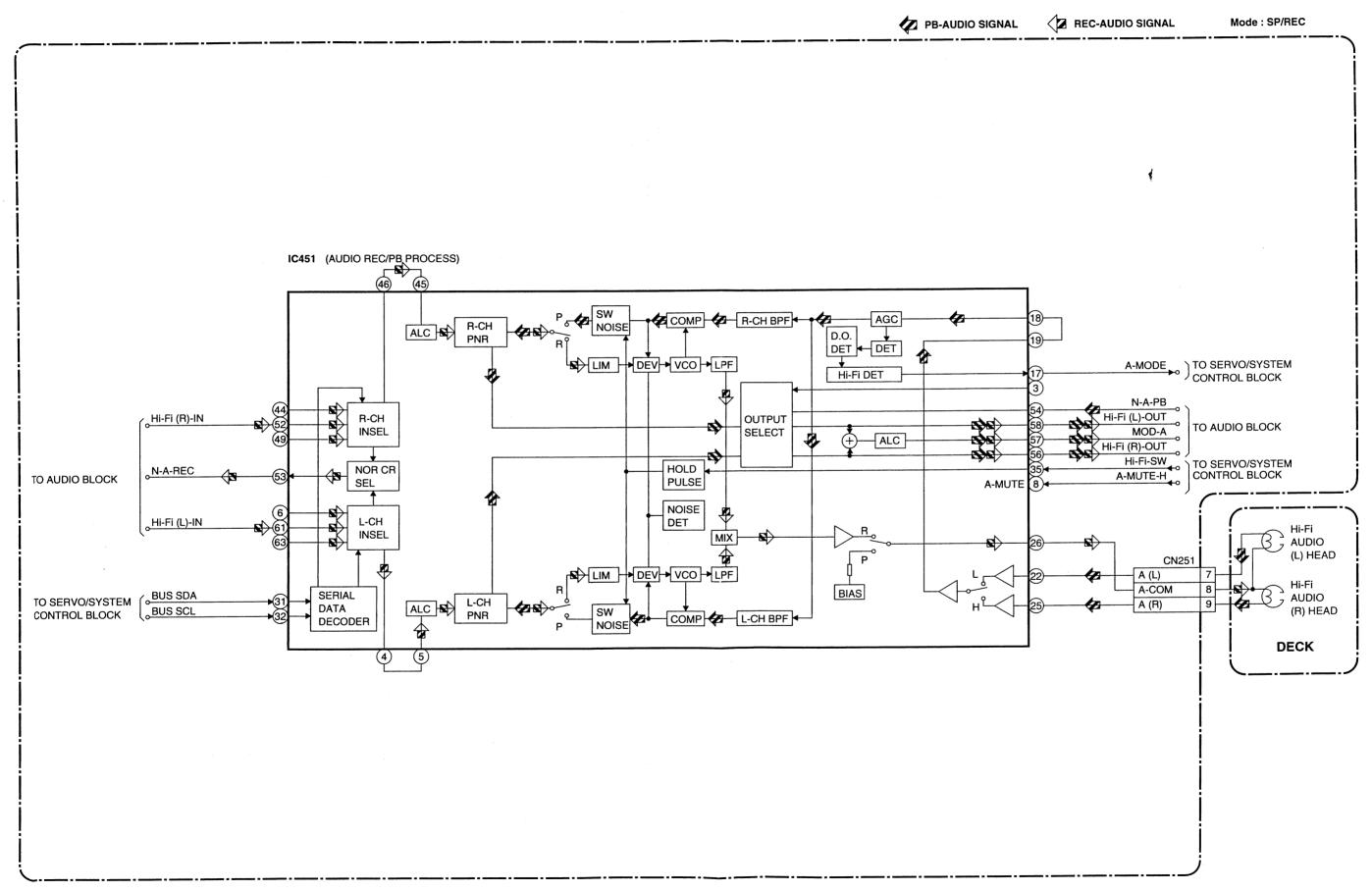
The voltage for parts in hot circuit is measured using hot GND as a common terminal

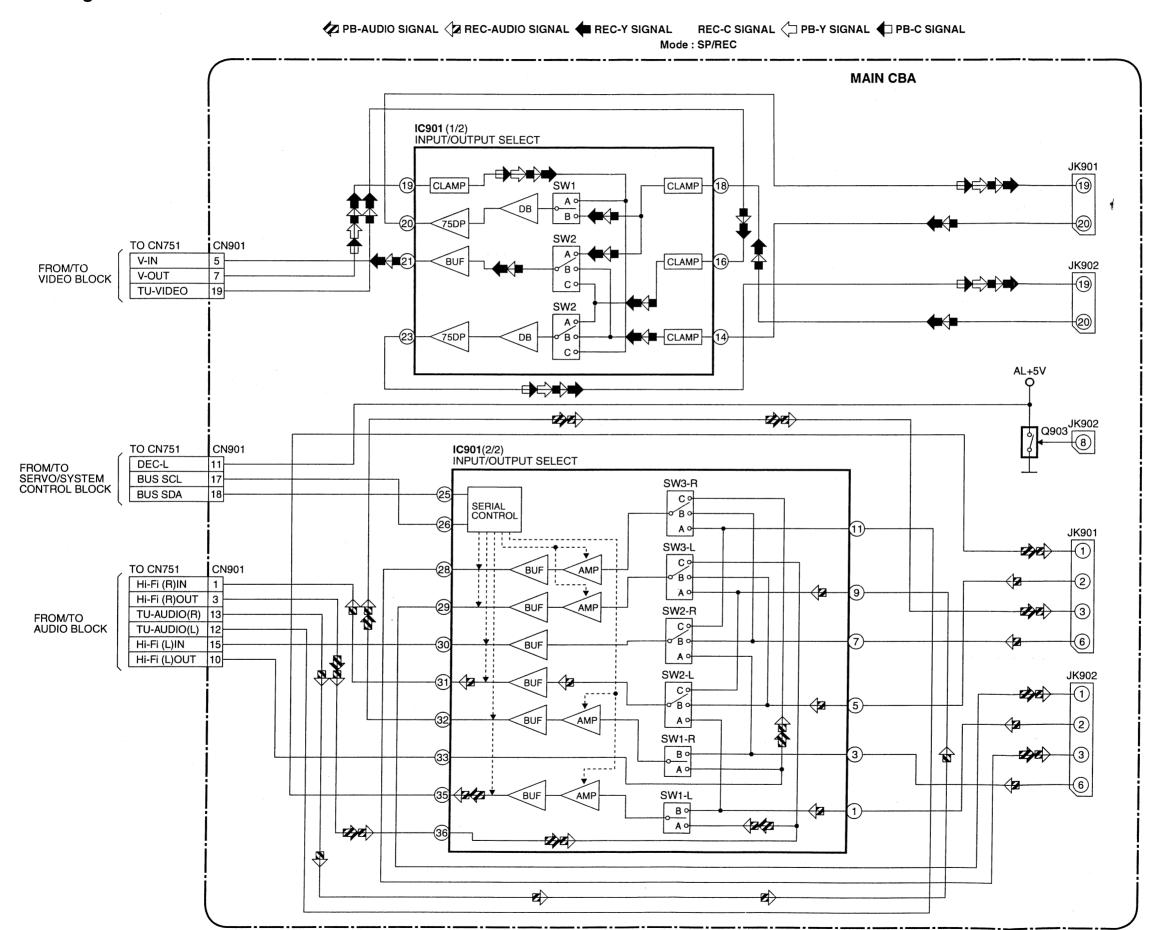
CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE T1.6AL/250V FUSE.

CAUTION!

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



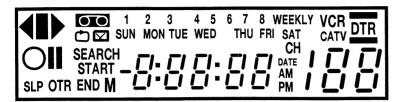




# **Function Indicator Symbols**

Models: 19A-600/19A-604

# Display panel



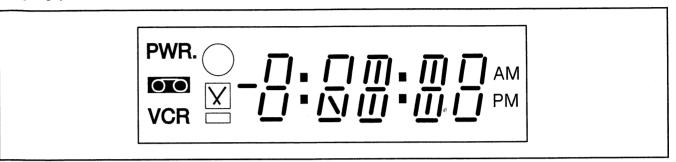
MODE		INDICATO	OR
Cassette "IN" Cassette "OUT"	" 00 "		ON OFF
STOP	" "		ON
FF	" > "	3.2Hz	Blinks
REW	" ◀ "	3.2Hz	Blinks
PLAY	" > "	0.8Hz	
PLAY PAUSE N. CANCEL	"       "		ON ON
FS PLAY	" 🏲 "	1.6Hz	Blinks
RS Reverse Rotation PLAY	"    "	1.6Hz	Blinks
REC	" <b>O</b> "	0.8Hz	ON Blinks
REC PAUSE	"O" "II"		ON ON
Counter Memory"ON" Counter Memory "OFF"	"M" "M"		ON OFF
Tape Speed SP LP	"SP" "LP"		ON ON
TIMER REC	"O" " <b>&gt;</b> "	0.8Hz	ON Blinks ON
OTR	" O " " <b>&gt;</b> " "OTR"	0.8Hz	ON Blinks ON
REPEAT PLAY "OFF" REPEAT PLAY "ON"	" " "		OFF ON
AUTO TRACKING Done In Search Manual	"DTR" "DTR" "DTR"	3.2Hz	ON Blinks OFF
AUTO RETURN	" <b>4</b> "	3.2Hz 0.8Hz	
When Reel Mechanism is not functioning correctly Capstan Mechanism is not functioning correctly	" CH NO.1	0.8Hz 0.8Hz	Blinks Blinks
When Tape Loading Mechanism is not functioning correctly	" OO " "CH NO.2	0.8Hz 0.8Hz	Blinks Blinks
When Cassette Loading Mechanism is Not Functioning Correctly	" OO " "CH NO.3	0.8Hz 0.8Hz	Blinks Blinks
When the Drum is not working properly	" OO " "CH NO.4	0.8Hz 0.8Hz	Blinks Blinks
S-INH CONDITION	ALL MODE		Blinks at 0.8Hz interval

# Models: 19A-620/19A-624

# Note:

The following symbols will appear on the indicator panel to indicate the current mode or operation of the VCR. On-Screen modes will also be momentarily displayed on the TV screen when you press the operation buttons.

# Display panel



" H "= LED Light on, " L "= LED Light off

		H = LED Light on, L = LED Light on
LED MODE		INDICATOR ACTIVE
CASSETTE " IN " CASSETTE " OUT "	" OO "	ON OFF
CLOCK	" 88:88 "	ON
POWER ON	"PWR"	ON
REC	" "	ON
REC PAUSE	" "	Blinks at 0.8Hz interval
T-REC, OTR	" " "	ON (T-REC OFF, T-REC incomplete Blinks at 0.8Hz interval)
AUTO RETURN	" 🔀 "	Blinks at 0.8Hz interval
VPS/PDC "ON" VPS/PDC "OFF"	" " "	ON OFF
When reel and capstan mechanism is not functioning correctly	" 1 "	Blinks at 0.8Hz interval
When tape loading mechanism is not functioning correctly	" 2 "	Blinks at 0.8Hz interval
When cassette loading mechanism is not functioning correctly	" 3 "	Blinks at 0.8Hz interval
When the drum is not working properly	" 4 "	Blinks at 0.8Hz interval
S-INH condition	All modes	Blinks at 0.8Hz interval

1-7-16

# SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

# **Standard Notes**

#### WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " \( \triangle \)" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

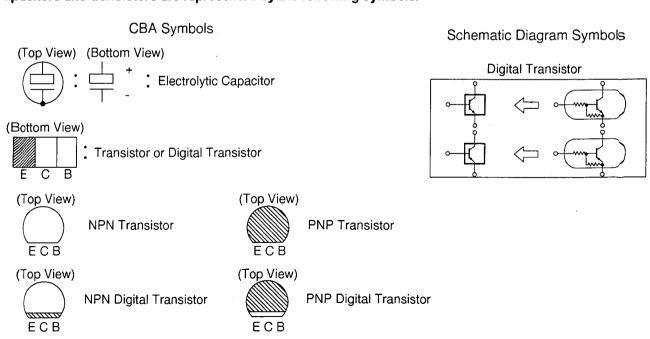
Capacitor Temperature Markings

Mark	Capacity change rate	Standard temperature	Temperature range
(B)	±10%	20℃	-25~+85°C
(F)	+30 -80%	20°C	-25~+85°C
(SR)	±15%	20℃	-25~+85℃
(Z)	+30 -80%	20℃	-10~+70°C

#### Note:

- 1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- All resistance values are indicated in ohms (K=10<sup>3</sup>, M=10<sup>6</sup>).
- Resistor wattages are 1/4W or 1/6W unless otherwise specified.
- 4. All capacitance values are indicated in  $\mu$ F (P=10<sup>-6</sup> $\mu$ F).
- 5. All voltages are DC voltages unless otherwise specified.
- 6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

#### Capacitors and transistors are represented by the following symbols.



LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

#### 1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

#### 2. CAUTION:

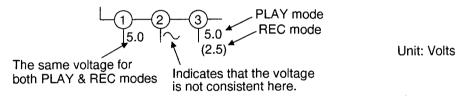
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

#### 3. Note:

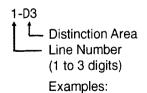
- (1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

#### 4. Wire Connectors

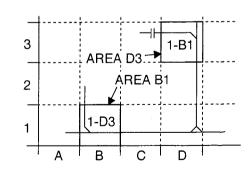
- (1) Prefix symbol "CN" means "connector" (can disconnect and reconnect).
- (2) Prefix symbol "CL" means "wire-solder holes of the PCB" (wire is soldered directly).
- 5. Note: Mark "•" is a leadless (chip) component.
- 6. Mode: SP/REC
- 7. Voltage indications for PLAY and REC modes on the schematics are as shown below:



8. How to read converged lines



- 1. "1-D3" means that line number "1" goes to area "D3".
- 2. "1-B1" means that line number "1" goes to area "B1".

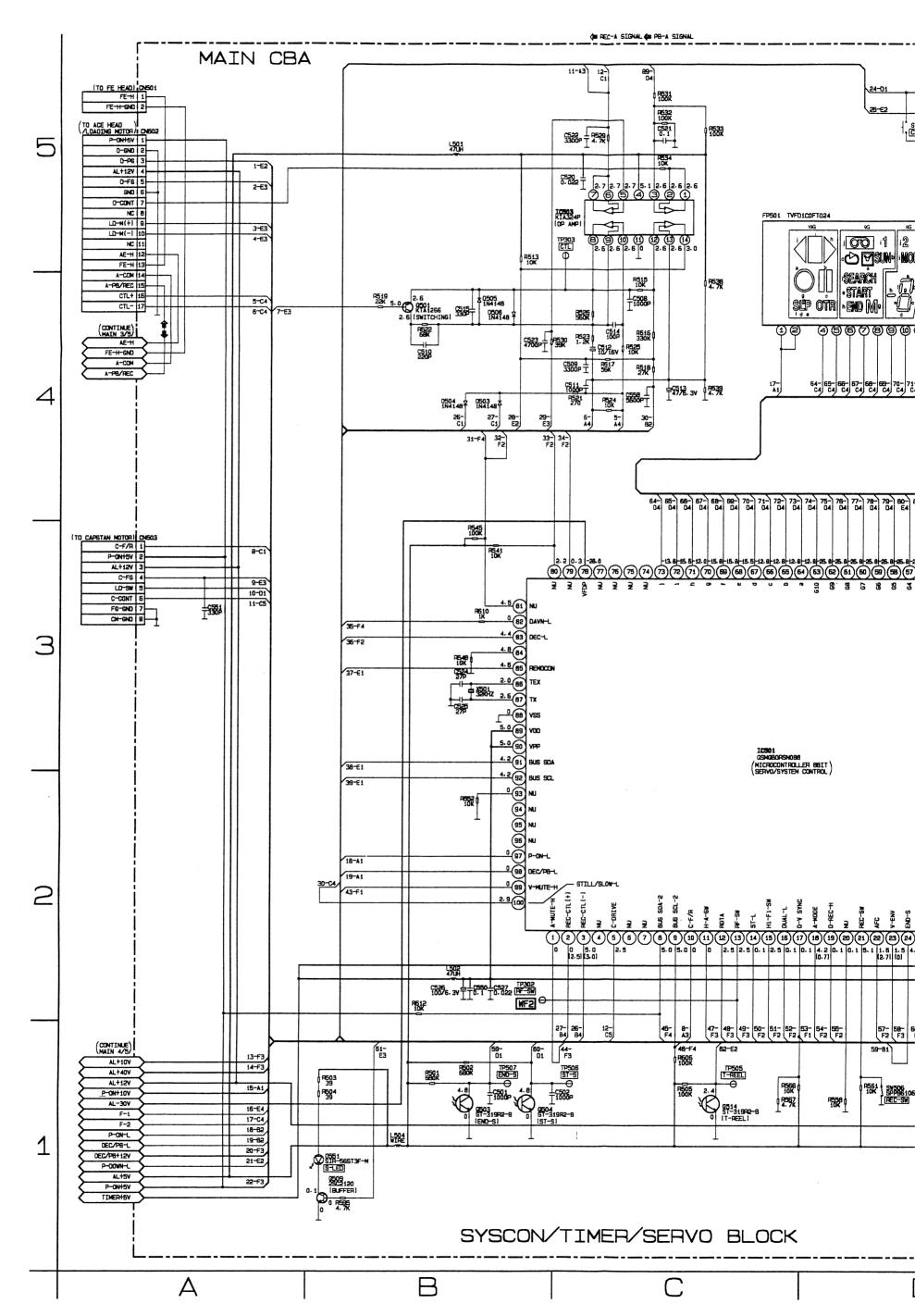


#### 9. Test Point Information

() : Indicates a test point with a jumper wire across a hole in the PCB.

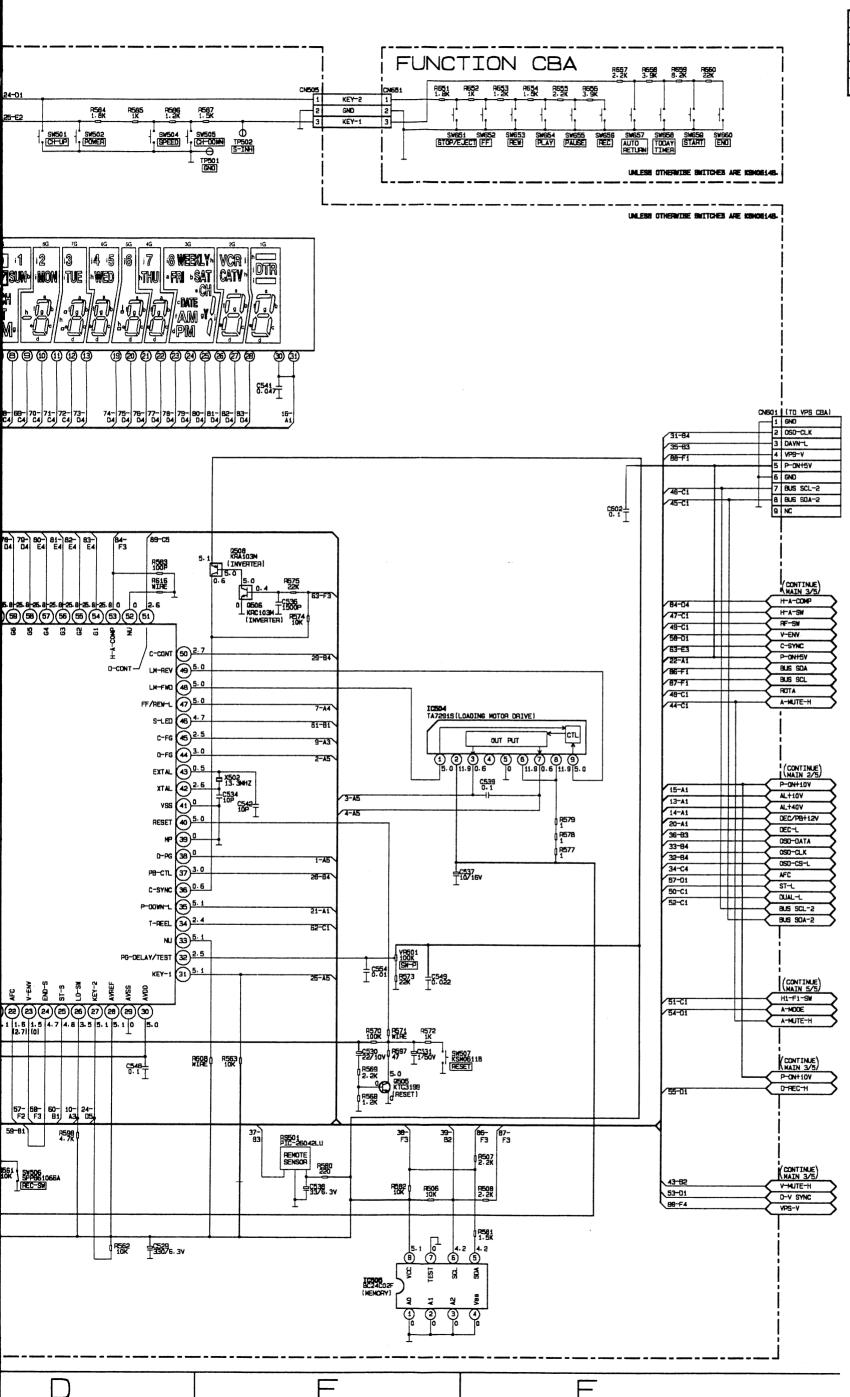
: Used to indicate a test point with a component lead on foil side.

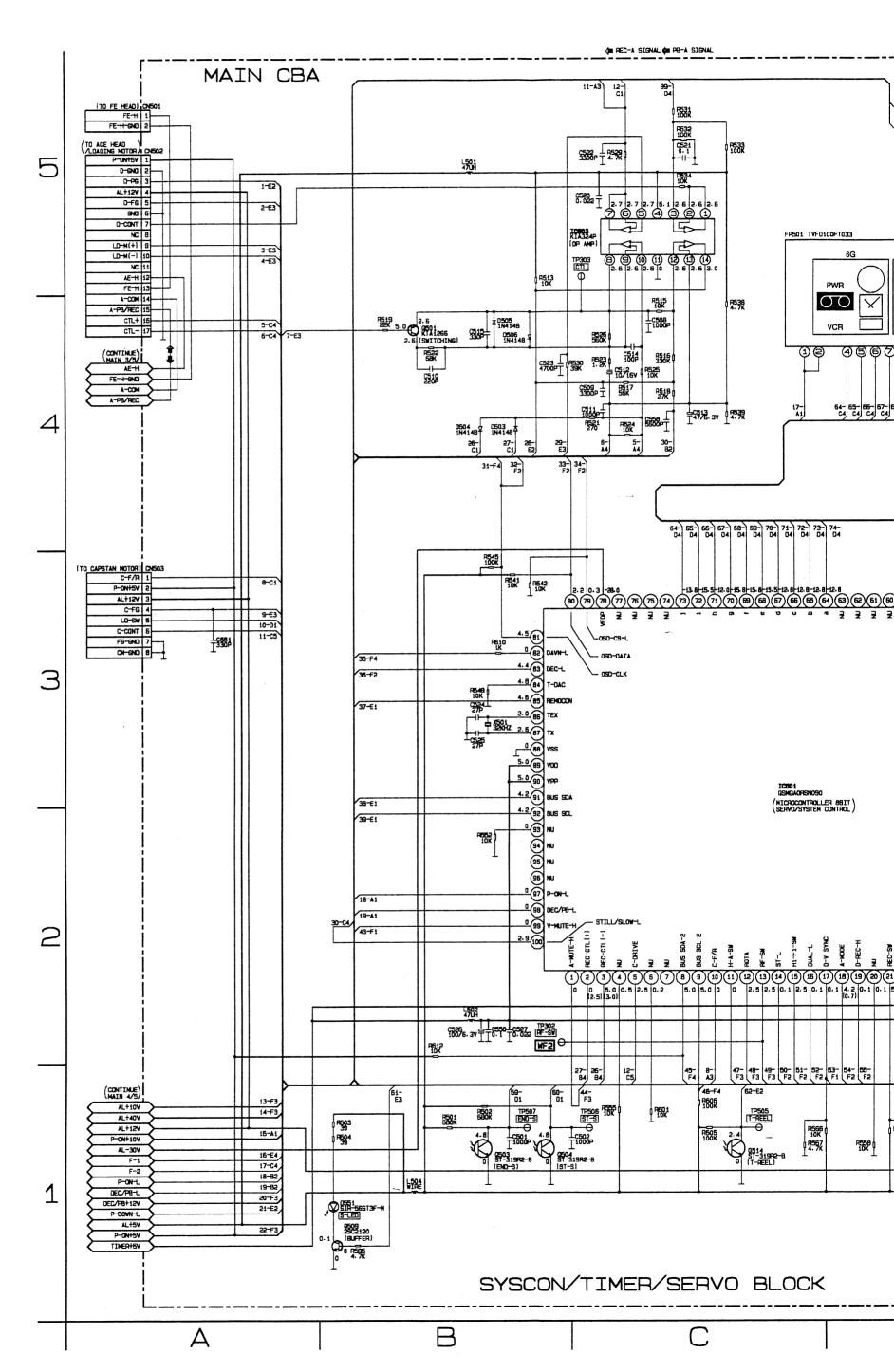
: Used to indicate a test point with no test pin.: Used to indicate a test point with a test pin.



# Comparison Chart of Models and Marks

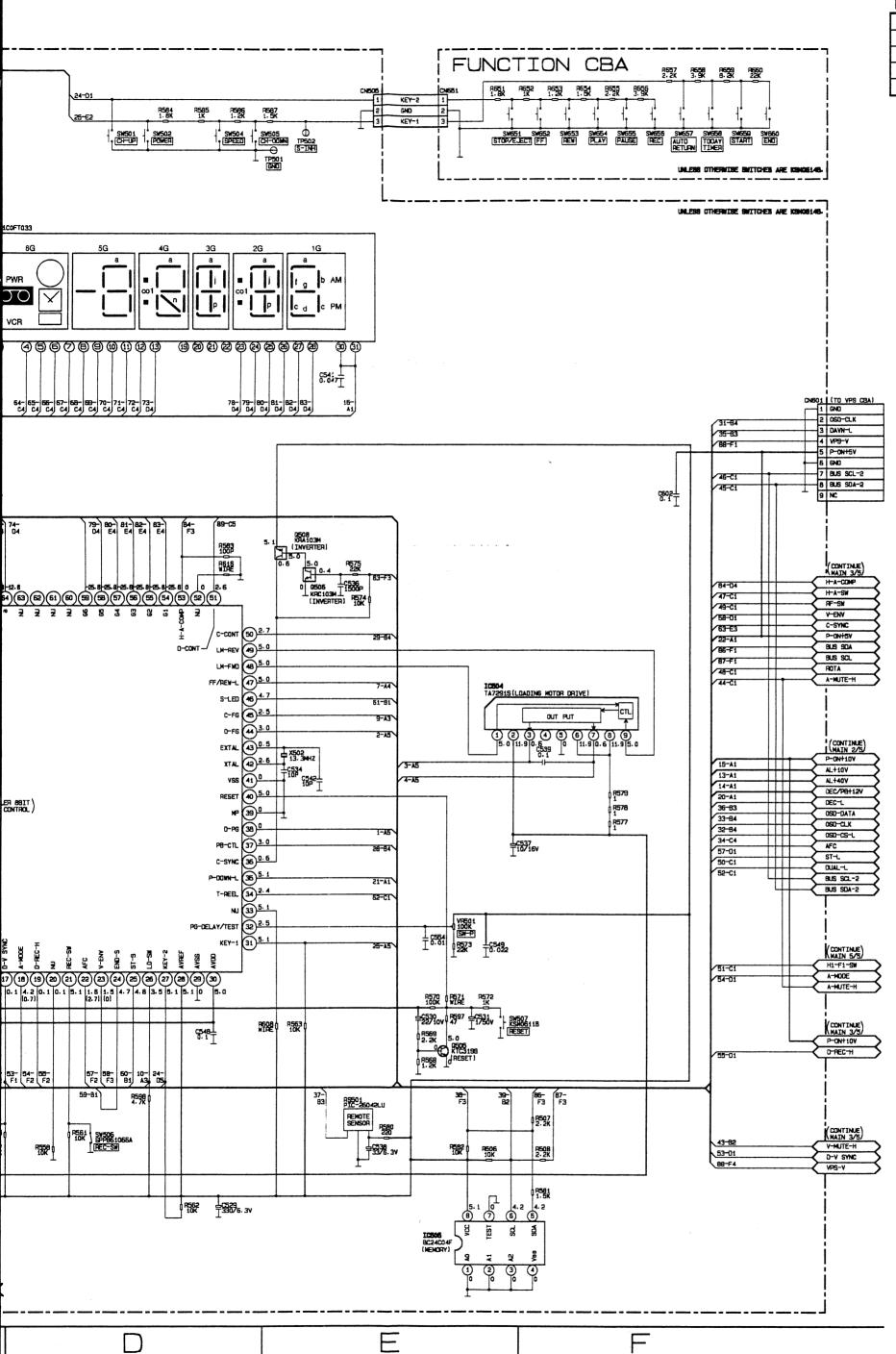
MODEL	MARK		
19A-700	Α		
19A-704	В		
19A-720	С		
19A-724	D		

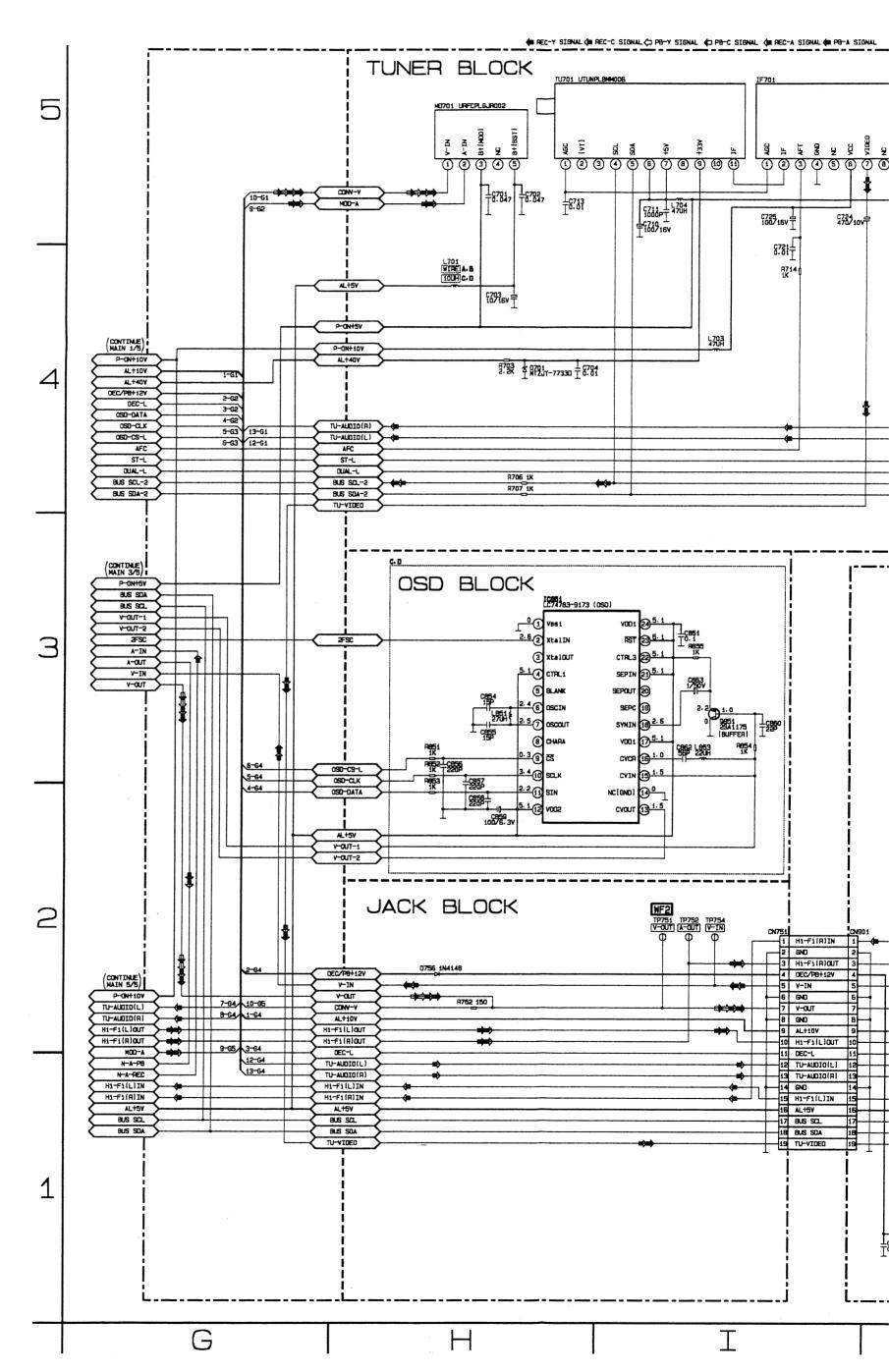




# Comparison Chart of Models and Marks

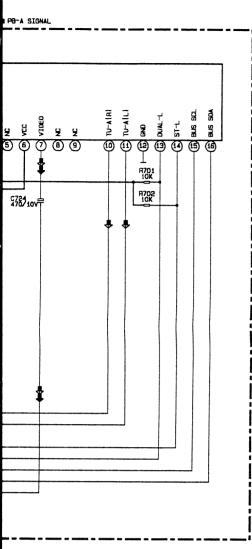
modelo di la mai ko		
MODEL	MARK	
19A-700	Α	
19A-704	В	
19A-720	С	
19A-724	D	

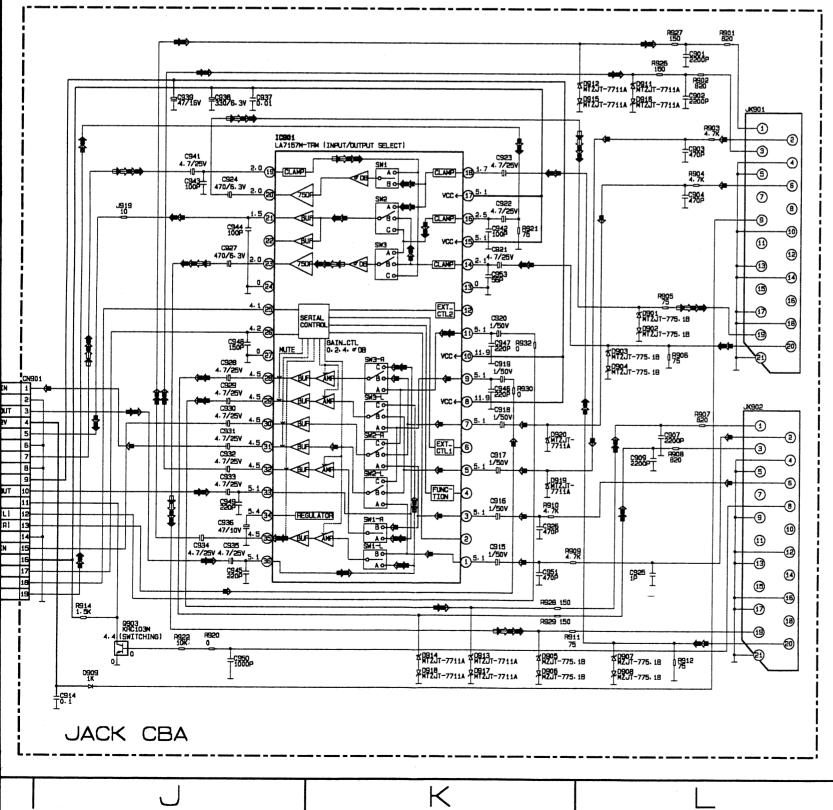


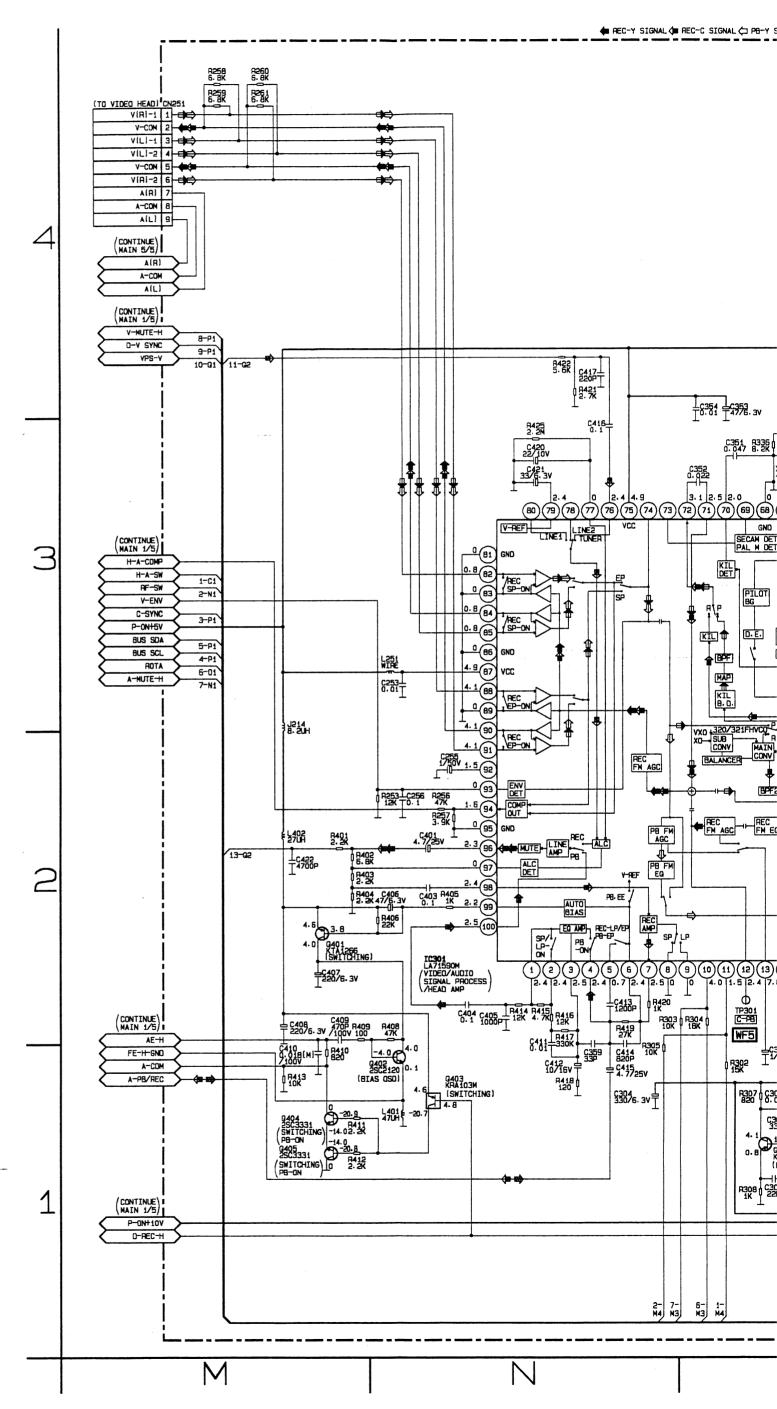


# Comparison Chart of Models and Marks

MODEL	MARK	
19A-700	Α	
19 <b>A</b> -704	В	
19A-720	С	
19A-724	D	

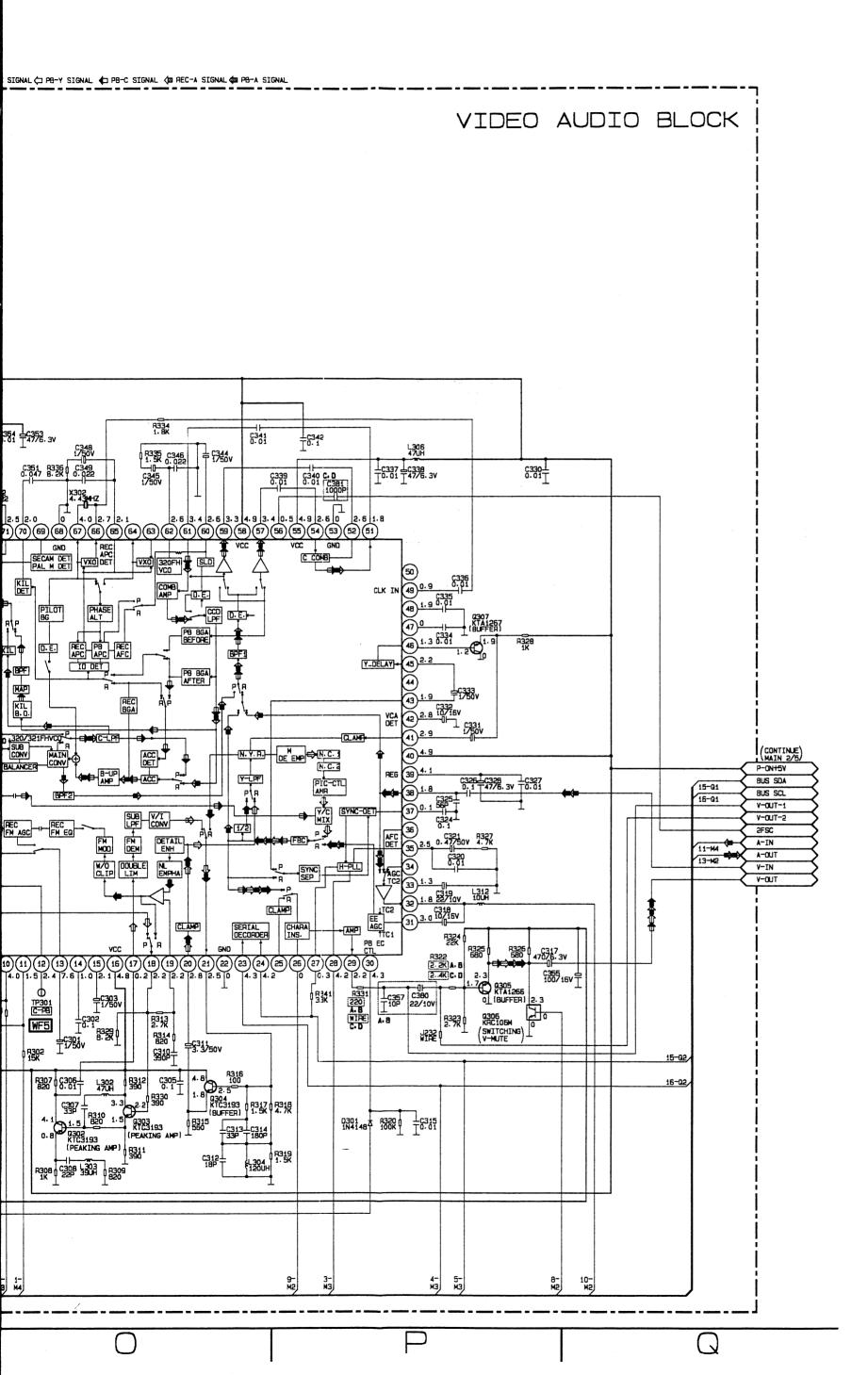






#### Comparison Chart of Models and Marks

Modelo alla Mai Ko				
MODEL	MARK			
19A-700	Α			
19A-704	В			
19A-720	С			
19A-724	D			



#### Main 4/5 Schematic Diagram

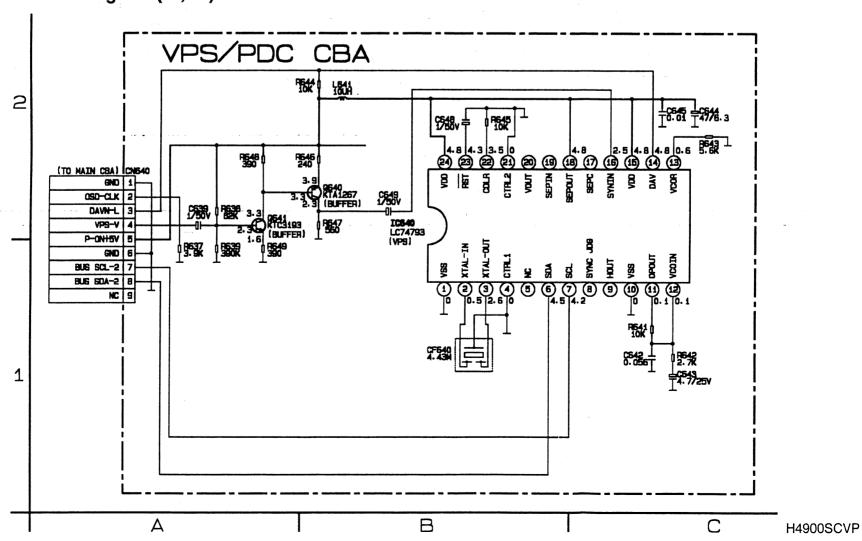
HOT GND AS A COMMON TERMINAL. REPLACE ONLY WITH THE SAME TYPE FUSE. HOT CIRCUIT. BE CAREFUL MAIN CE 4 1002 1003 ↑ 0001 1N4005 P DOOS BEAG DO111 量 **4.3**750∨ 2004AL + ⊥ coos T ∕500V = 5294oov | \$2835≥w D013-01 BEAD 220A B005 1200F/100V = 5915 16V = 5917 16V FEXE 12004 2 0. 10 0002 25C4517 (SWITCHING) 1507<sub>1W</sub> D013 BA159 LOOG BEAD C007 0.039 B003 3300 R014 104% 2019 330716V **★P017 ★NT2**.IT-778. 2A C020 VE . 3\0001 跳級 7013 1.571V GOO1 25C3576 9WITCHING CONTROL R027 D015 1 ERA18 04 **本D005** 1N4148 1883 tov = R016 (000 R017 7 1N4148 T 0.022 8.83十 RO23 C023 B025 | C002 | KIA491 | 4.1 | C024 | SHUNT | RED | 2.500 | REBULATOR | 0 | HOT COLD POWER SUPPLY BLOCK S

THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING

CAUTION

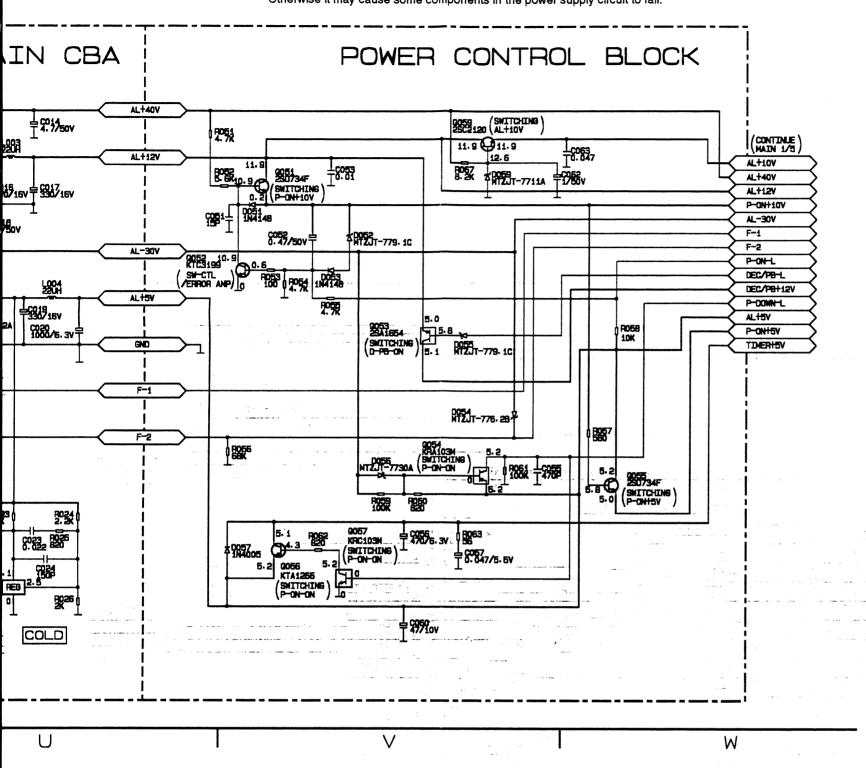
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,

# VPS/PDC Schematic Diagram (B, D)



#### **CAUTION!**

T FIRE HAZARD, USE. Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

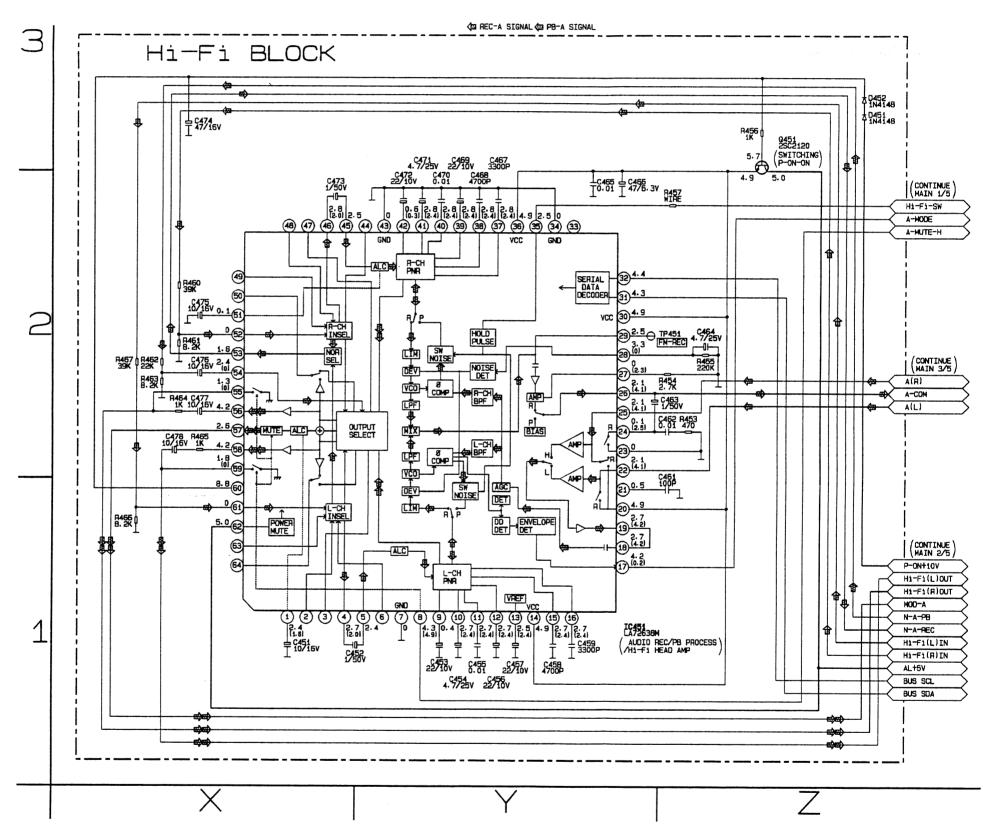


H4900SCM5

#### **Comparison chart of Models and Marks**

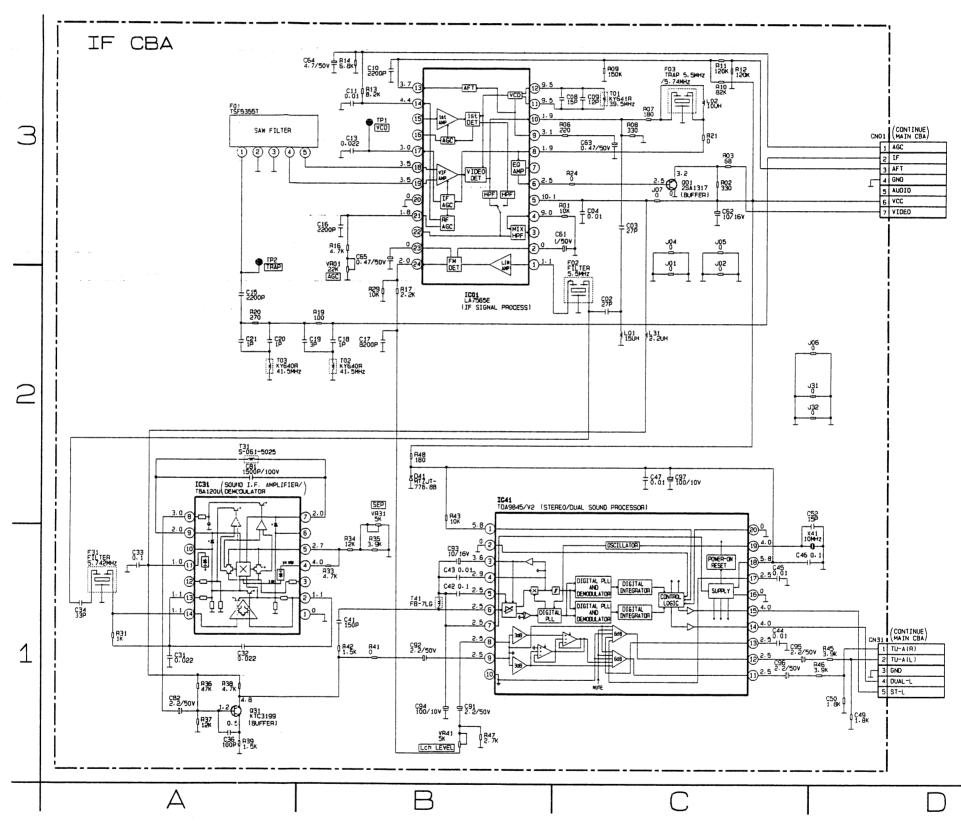
Model	Mark
19A-600	Α
19A-604	В
19A-620	С
19A-624	D

#### Main 5/5 Schematic Diagram



H4900SCM5

# IF Schematic Diagram



H4900SCMIF

1-8-19

ITINUE) N 2/5) 10V (L)OUT (R)OUT

(L)IN (A)IN

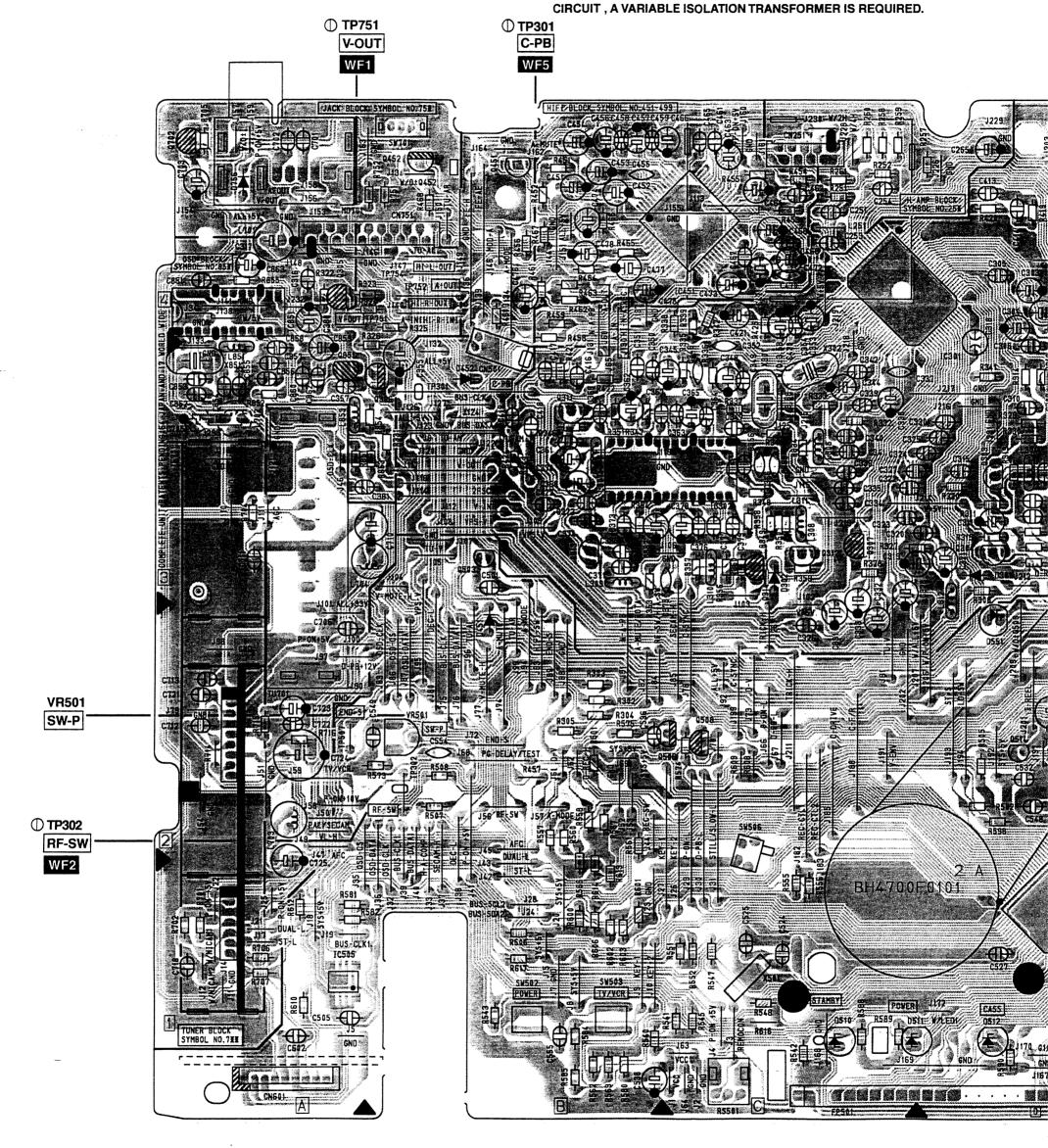
CM5

#### NOTE:

THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING HOT GND AS A COMMON TERMINAL.

CAUTION
FOR CONTINUED
REPLACE ONLY

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY

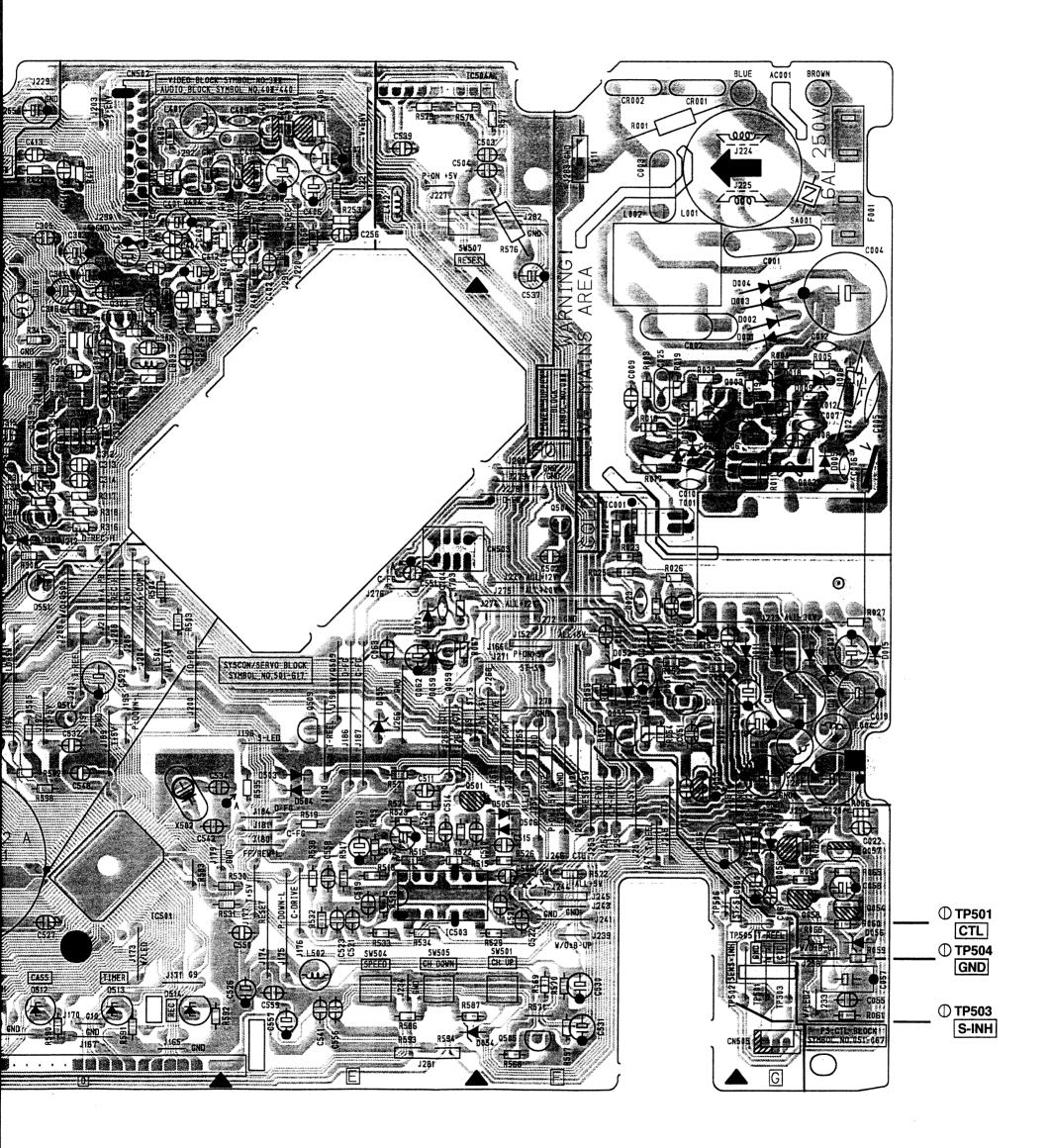


#### CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

#### **CAUTION!**

Fixed voltage (or Auto voltage selectable ) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



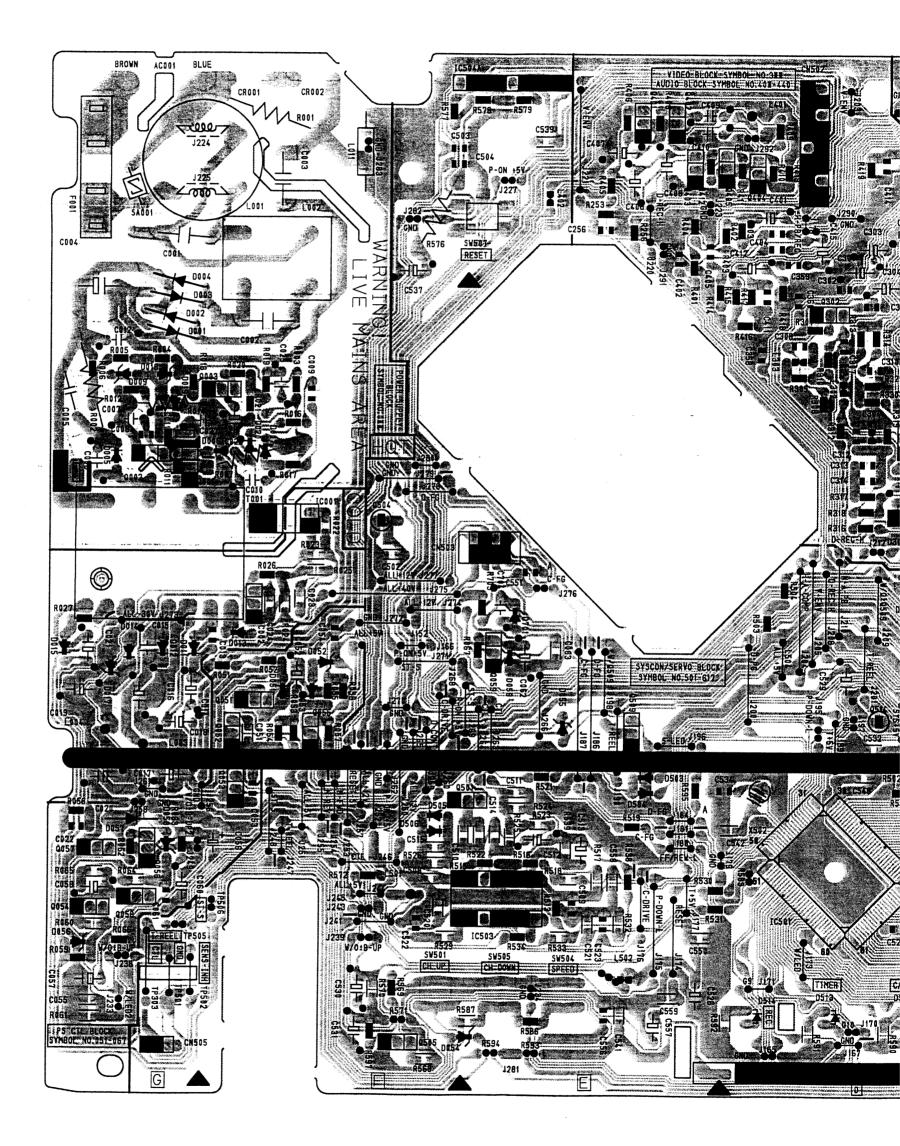
#### NOTE:

THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING HOT GND AS A COMMON TERMINAL.

#### CAUTION

FOR CONTINUED PROTECTION AGREPLACE ONLY WITH THE SAME TO

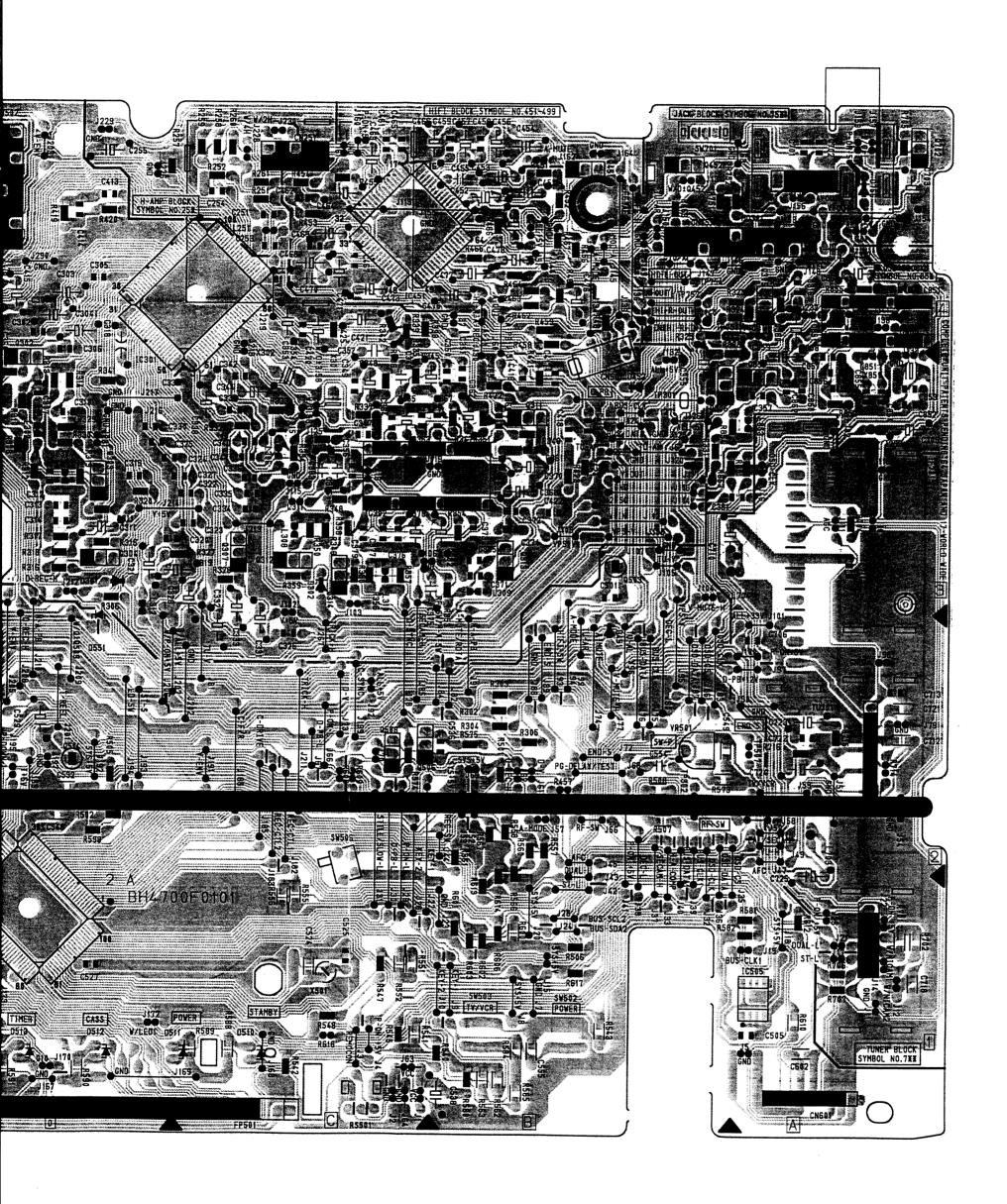
BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.



ROTECTION AGAINST FIRE HAZARD, TH THE SAME TYPE FUSE.

#### **CAUTION!**

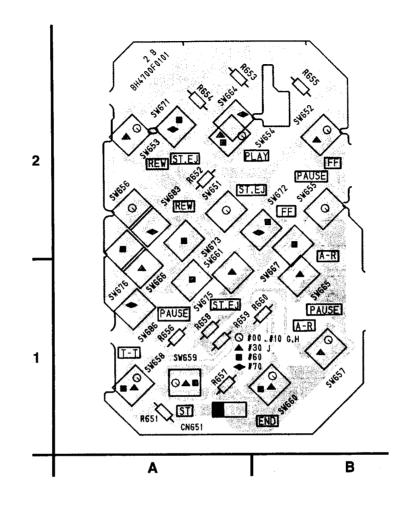
Fixed voltage (or Auto voltage selectable ) power supply circuit is used in this unit. If Main Fuse (F001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



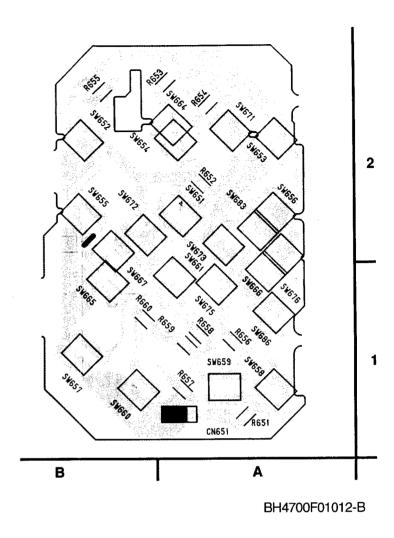
# **Mode SW Schematic Diagram**

# 2 | SW281 | HM00420-910010/SSS-27MD | HM00420-910010/SSS-27MD | HM00420-910010/SSS-27MD | HM00420-910010/SSS-27MD | HM00420-910010/SSS-27MD | HM00420-910010/SSS-27MD | H285 | H283 | H2

# **Function CBA Top View**

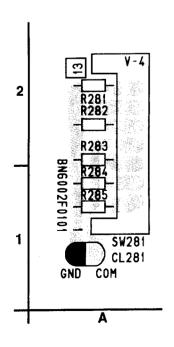


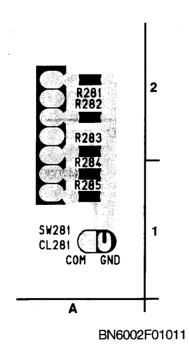
# **Function CBA Bottom View**



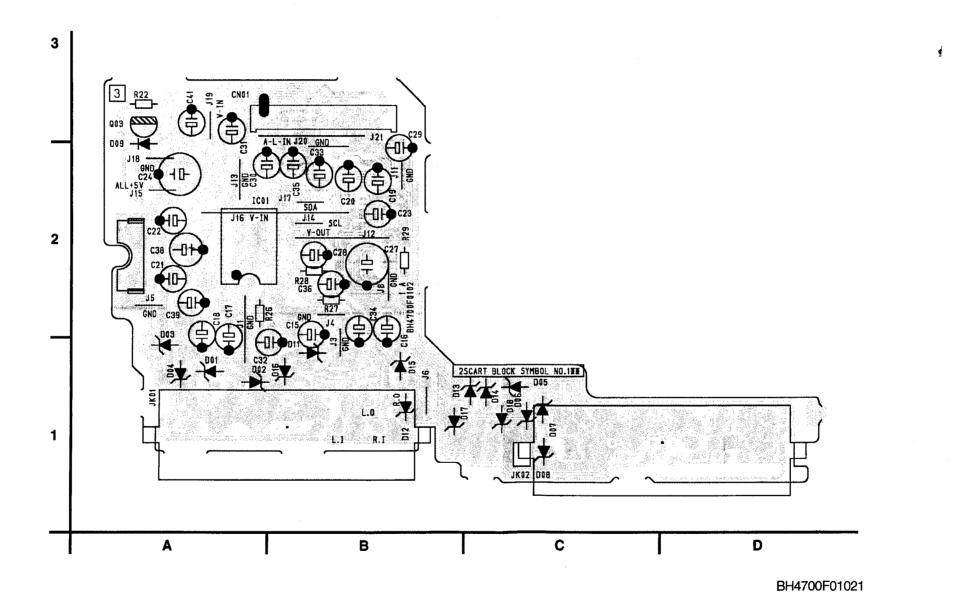
# **Mode SW CBA Top View**

**Mode SW CBA Bottom View** 





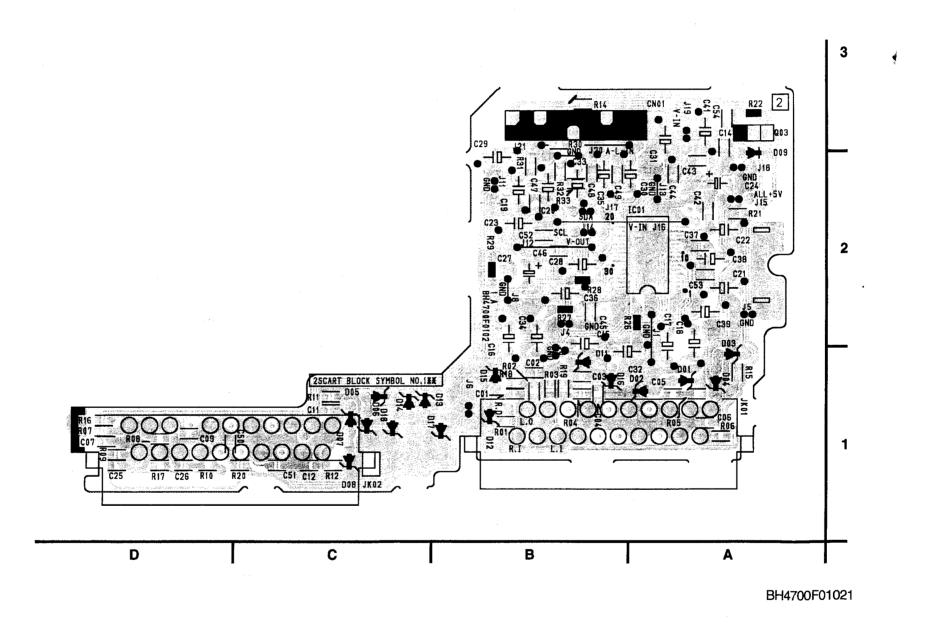
# Jack CBA Top View



1-8-30

# Jack CBA Bottom View

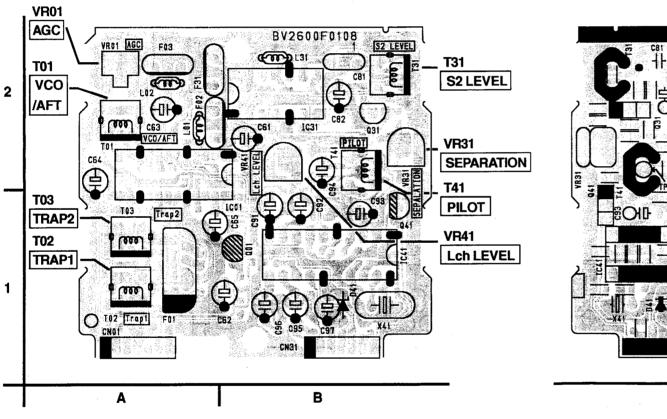
1-8-31

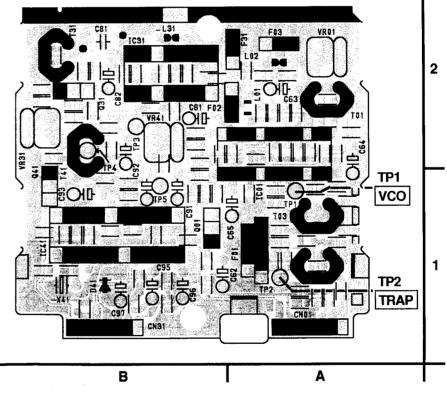


1-8-32

# IF CBA Top View

# IF CBA Bottom View





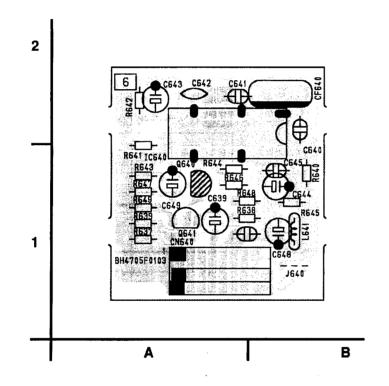
BV2600F01081

1-8-33

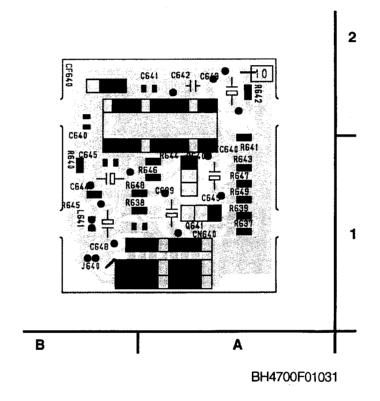
# **Comparison chart of Models and Marks**

Model	Mark
19A-600	А
19A-604	В
19A-620	С
19A-624	D

# VPS/PDC Top View (B, D)

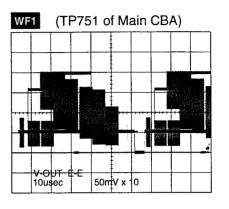


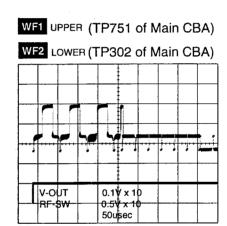
# VPS/PDC Bottom View (B, D)

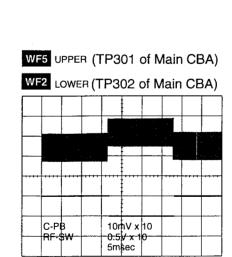


1-8-35

# **WAVEFORMS**

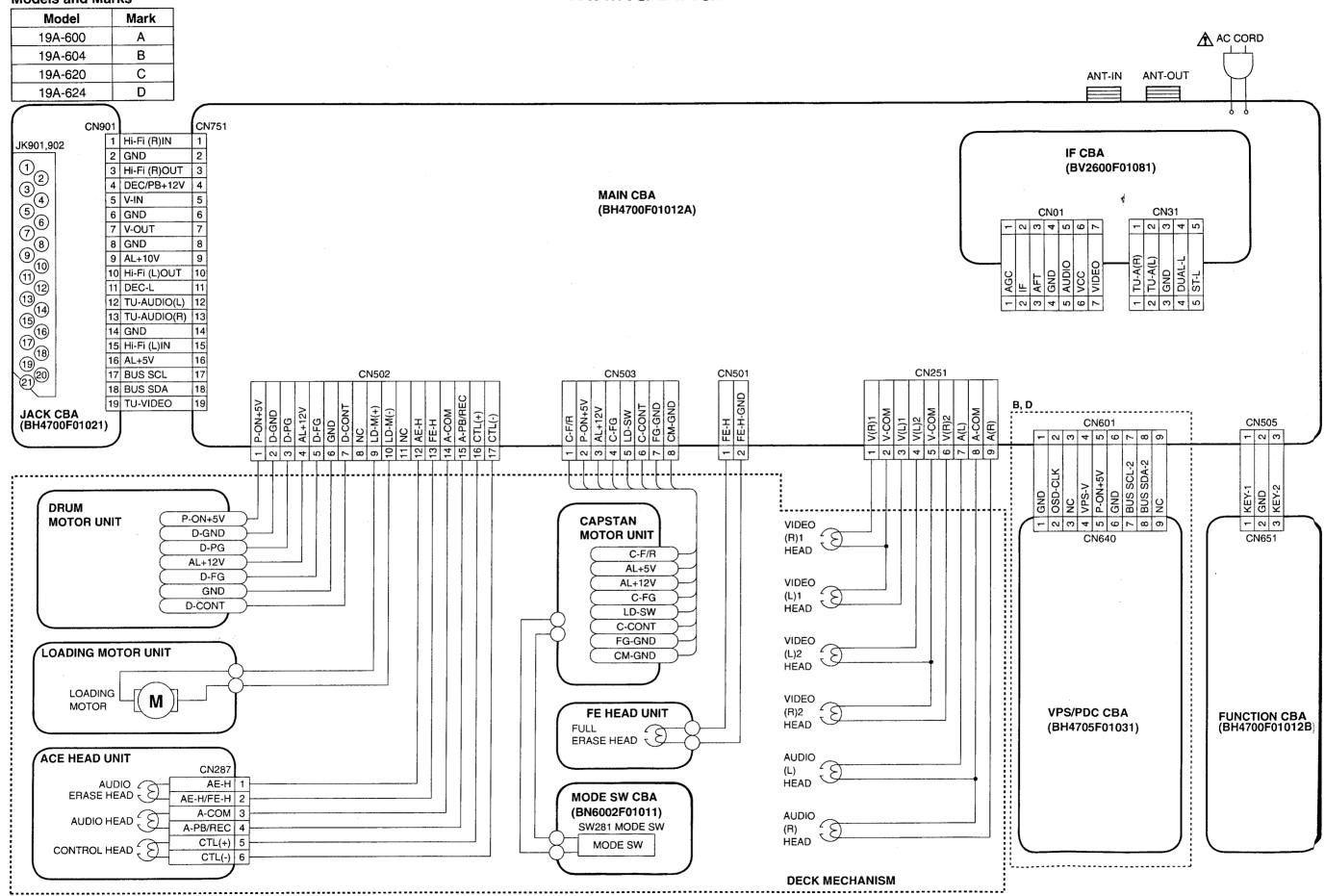






#### Comparison Chart of Models and Marks

#### **WIRING DIAGRAM**



# SYSTEM CONTROL TIMING CHARTS

#### **Mode SW: LD-SW**

LD-SW Position detection A/D Input voltage Limit (Calculated voltage)	Symbol
3.76V~4.50V (4.12V)	EJ
4.51V~5.00V (5.00V)	CL
0.00V~0.25V (0.00V)	SB
1.06V~1.50V (1.21V)	TL
0.66V~1.05V (0.91V)	FB
1.99V~2.60V (2.17V)	SF
1.51V~1.98V (1.80V)	AU
3.20V~3.75V (3.40V)	AL
0.26V~0.65V (0.44V)	SS
4.51V~5.00V (5.00V)	GC
2.61V~3.19V (2.97V)	RS
	LNote

EJ ---- RS: Loading FWD (LM-FWD "H", LM-REV "L")

RS --- EJ: Loading REV (LM-FWD "L", LM-REV "H")

Stop (A) = Loading

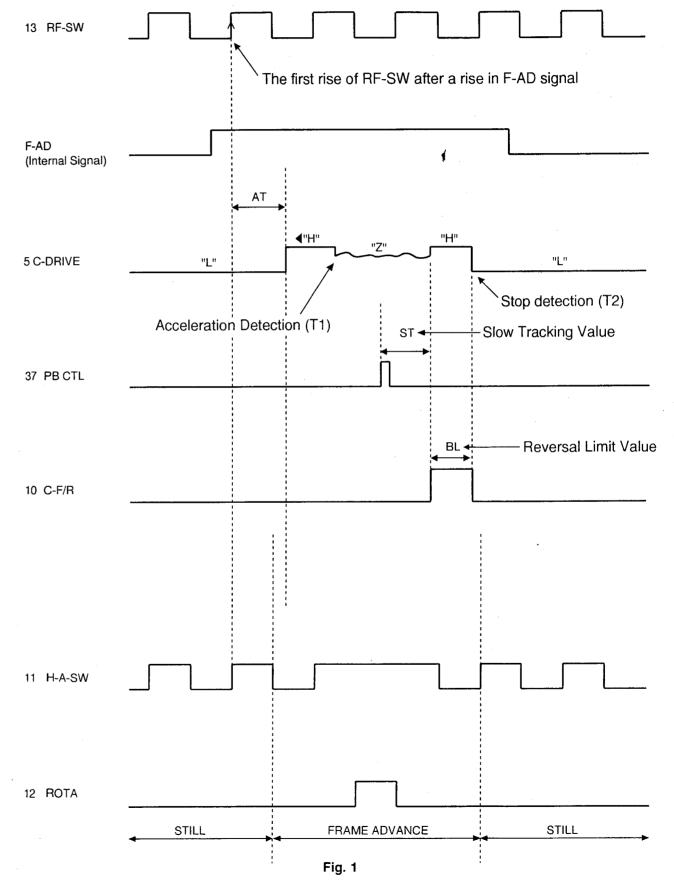
Stop (B) = Unloading

#### Note:

Symbol	Loading Status
EJ	Eject
CL	Eject ~ REW Reel
SB	REW Reel ~ Stop(B)
TL	Stop(B) ~ Brake Cancel
FB	Brake Cancel ~ FF / REW
SF	FF / REW ~ Stop(A)
AU	Stop(A) ~ Play / REC
AL	Play / REC ~ Still / Slow
SS	Still / Slow ~ Capstan Reversal
GC	Capstan Reversal ~ RS (REW Search)
RS	RS (REW Search)

#### Still/Slow Control Frame Advance Timing Chart

#### 1) SP Mode



1-11-2

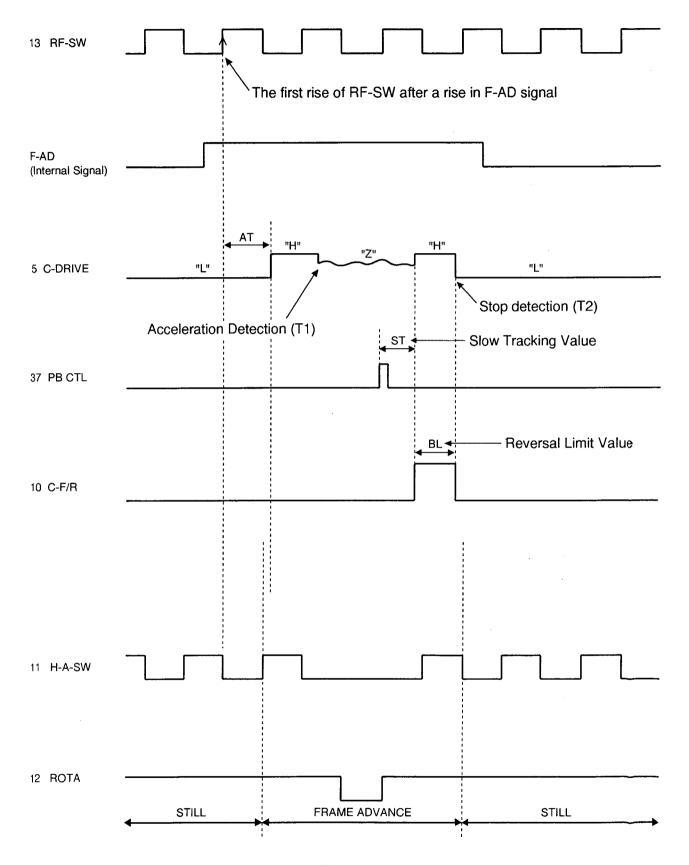
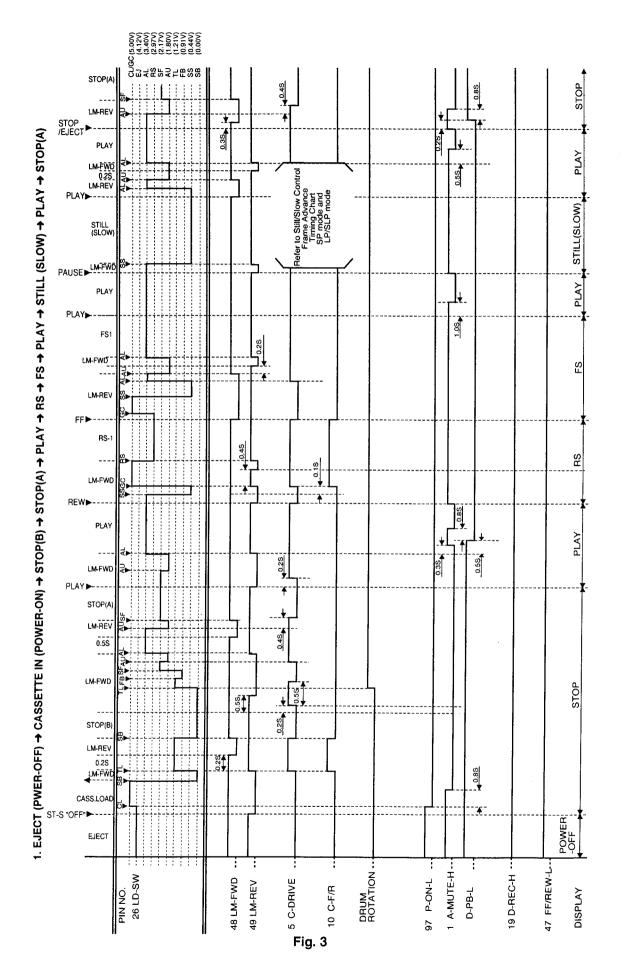
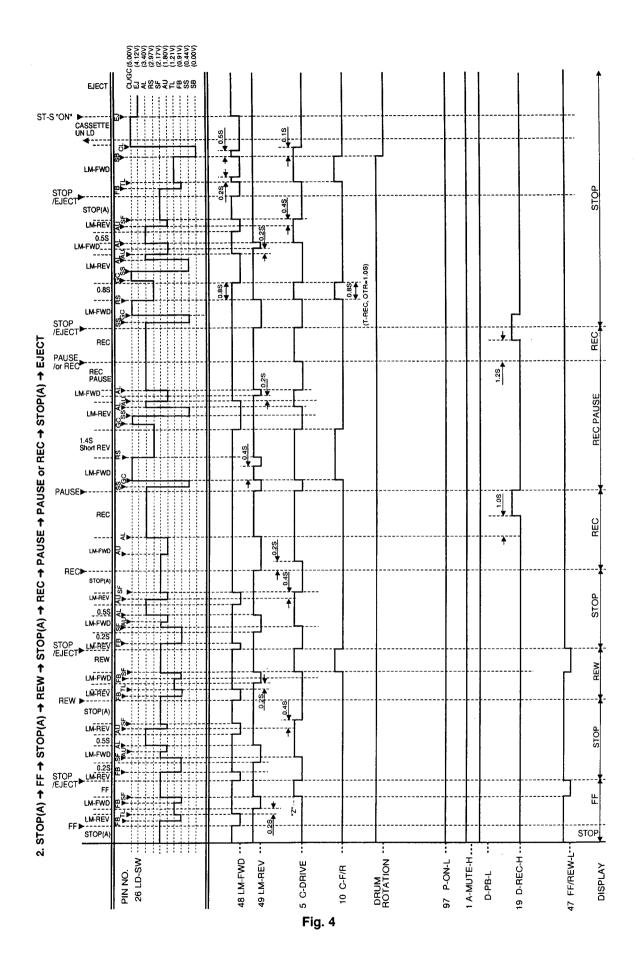


Fig. 2





# **IC PIN FUNCTION**

# **Comparison Chart of Models and Marks**

Model	Mark
19A-600	Α
19A-604	В
19A-620	С
19A-624	D

#### IC501 (SERVO/SYSTEM CONTROL IC)

"H" ≥ 4.5V, "L" ≤ 1.0V

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
1		OUT	A-MUTE- H	Audio Mute Control Signal	Н
2		OUT	REC- CTL(+)	Record Control Signal (+)	H/L
3		OUT	REC- CTL(-)	Record Control Signal (-)	H/L
	A,B	-	N.U.	Not Used	-
4	C,D	_	N.U.	Not Used (GND)	-
5		OUT	C-DRIVE	Capstan Motor Drive Signal	H/Z
	A,B	-	N.U.	Not Used	-
6	C,D	-	N.U.	Not Used (GND)	-
	A,B	-	N.U.	Not Used	-
7	C,D	-	N.U.	Not Used (GND)	-
8		IN/ OUT	BUS SDA-2	I2C BUS Control Data	H/L
9		OUT	BUS SCL-2	I2C BUS Control Data	H/L
10		ОПТ	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L" / REV="H")	H/L
<b>1</b> 1		OUT	H-A-SW	Video Head amp Switching Pulse	H/L
12		OUT	ROTA	Color Phase Rotary Changeover Signal	H/L

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
13		OUT	RF-SW	Video Head Switching Pulse	H/L
14		IN	ST-L	Tuner Stereo Detector Signal	L
15		OUT	HiFi-SW	HiFi Audio Head Switching Pulse	H/L
16		IN	DUAL-L	Tuner Dual Detector Signal	L
17		OUT	D- VSYNC	Dummy Vertical Synchronized Pulse	H/Hi-Z
18		IN	A-MODE	HiFi Tape Detection Signal	L
19		ОПТ	D-REC- H	Delayed Record Signal (Recording= "H")	Н
20		-	N.U.	Not Used (GND)	-
21		IN	REC-SW	Record Safety Switching Signal	L
22		IN	AFC	Automatic Frequency Control Signal	A/D
23		IN	V-ENV	Video Envelope Signal	A/D
24		IN	END-S	Tape END Position Detect Signal	A/D
25		ZI	ST-S	Tape Start Position Detect Signal	A/D
26		IN	LD-SW	Deck Mode Position Detect Signal	A/D
27		IN	KEY-2	Key Scan Input Signal 2	A/D
28		-	AVREF	Standard Voltage Input Terminal of A/D Converter (+5V)	*

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
29		-	AVSS	GND Supply Terminal of A/D Converter (GND)	-
30		-	AVDD	Power Supply Terminal of A/D Converter (Back Up +5V)	-
31		IN	KEY-1	Key Scan Input Signal 2	A/D
32		IN	PG- DELAY/ TEST	Video Head Switching Pulse Signal Adjusted Voltage	A/D
<b>3</b> 3		_	N.U.	Not Used (+5V)	-
34		IN	T-REEL	Take Up Reel Rotation Signal	H/L
35		IN	P- DOWN-L	Power Voltage Down Detector Signal	L
36		IN	C-SYNC	Composite Synchronized Pulse	H/L
37		IN	PB-CTL	Playback Control Signal	H/L
38		IN	D-PG	Drum Motor Pulse Generator	H/L
<b>3</b> 9		-	MP	GND	-
40		IN	RESET	System Reset Signal (Reset="L")	L
41		-	VSS	VSS (GND)	-
42		-	XTAL	Main Clock 13.300857 MHz (IN)	-
43		-	EXTAL	Main Clock 13.300857 MHz	-
44		IN	D-FG	Drum Motor Frequency Generator	H/L
45		IN	C-FG	Capstan Motor Rotation Detection Pulse	H/L

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
46		OUT	S-LED	LED for Sensor ON/OFF	Н
47		OUT	FF/REW- L	CTL Amp Gain Switching Signal (FF/REW="L")	L.
48		OUT	LM-FWD	Loading Motor Forward Control (Forward/Stop ="H")	H/L
49		OUT	LM-REV	Loading Motor Revrese Control (Revrese/ Stop="H")	H/L
50		OUT	C-CONT	Capstan Motor Control Signal	PWM
51		OUT	D-CONT	Drum Motor Control Signal	PWM
52		-	N.U.	Not Used (GND)	_
53		IN	H-A- COMP	Head Amp Comparator Signal	H/L
54		OUT	G1	Display Digit	H/L
55		OUT	G2	Display Digit	H/L
56		OUT	G3	Display Digit	H/L
57		OUT	G4	Display Digit	H/L
58		OUT	G5	Display Digit	H/L
59		OUT	G6	Display Digit	H/L
60	A,B	-	N.U.	Not Used	-
	C,D	OUT	G7	Display Digit	H/L
61	A,B	-	N.U.	Not Used	-
Ľ.	C,D	OUT	G8	Display Digit	H/L
62	A,B	-	N.U.	Not Used	-
	C,D	OUT	G9	Display Digit	H/L
63	A,B	_	N.U.	Not Used	<u>.</u>
	C,D	OUT	G10	Display Digit	H/L
64		OUT	а	Display Segment	H/L
65		OUT	b	Display Segment	H/L
66		OUT	С	Display Segment	H/L

H4900PIN

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
67		OUT	d	Display Segment	H/L
68		OUT	е	Display Segment	H/L
69		OUT	f	Display Segment	H/L
70		OUT	g	Display Segment	H/L
71		OUT	h	Display Segment	H/L
72		OUT	i	Display Segment	H/L
73		OUT	j	Display Segment	Н
74		-	N.U.	Not Used	-
75		-	N.U.	Not Used	-
76		-	N.U.	Not Used	-
77		-	N.U.	Not Used	-
78		IN	VFDP	-28V	-
79	A,C	-	N.U.	Not Used	-
79	B,D	OUT	OSD- CS-L	On-Screen Display IC Control Chip Select Signal at Low	L
80	A,C	_	N.U.	Not Used	-
80	B,D	OUT	OSD- DATA	On-Screen Display IC Control (Data)	H/L
81	A,C	-	N.U.	Not Used	-
81	B,D	ОПТ	OSD- CLK	On-Screen Display IC Control (Clock)	H/L
82		IN	DAVN-L	PDC Data Receive="L"	L
83		IN	DEC-L	Control Input Signal to AV2 (Scart Jack)	L
84		OUT	T-DAC	Tuning Voltage Control	PWM
85		OUT	REMO- CON	Remote control Sensor	H/L
86		_	TEX	Sub Clock 32KHz	-
87		-	TX	Sub Clock 32KHz	-
88		-	VSS	VSS (GND)	-

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
89		-	VDD	VDD (Back Up 5V)	-
90		-	VPP	VPP (Back Up 5V)	-
91		IN/ OUT	BUS SDA	IICBUS Control Data	H/L
92		OUT	BUS SCL	IICBUS Control Clock	H/L
93		-	N.U.	Not Used (GND)	-
94		-	N.U.	Not Used	-
95		-	N.U.	Not Used	-
96		-	N.U.	Not Used	-
97		OUT	P-ON-L	Power On Signal at Low	L
98		OUT	DEC/PB- L	Control Output Signal to AV1 (Scart Jack)	L
99		OUT	V-MUTE- H	Video Mute Signal	н
100		OUT	STILL/ SLOW-L	Still/Slow Circuit Change Over "L" Signal (STILL/SLOW Mode ="L," Other ="Hi-Z)	L

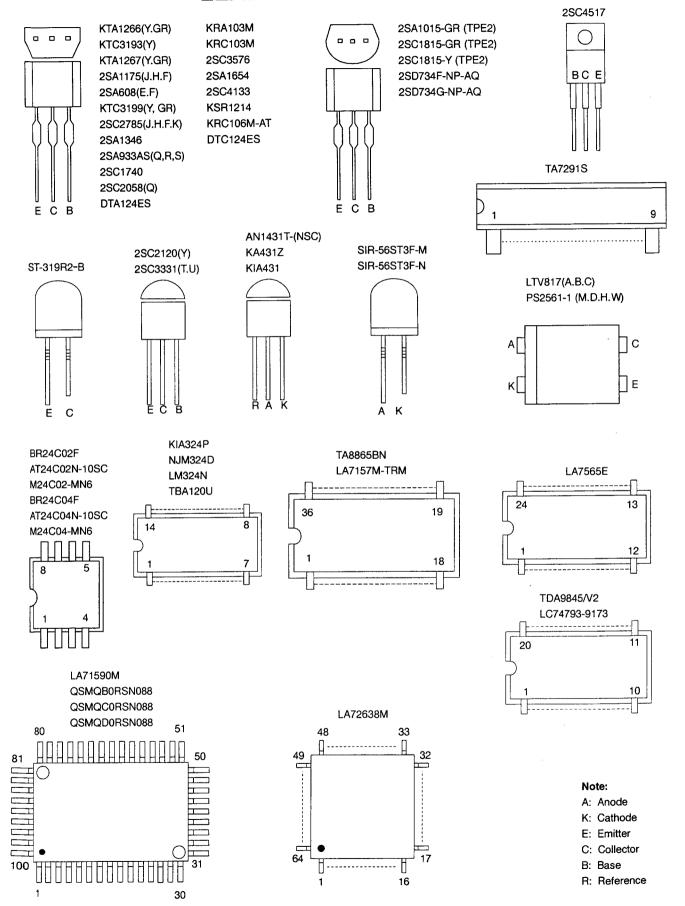
# Notes:

Abbreviation for Active Level:

PWM -- Pulse Wide Modulation

A/D — Analog - Digital Converter

### **LEAD IDENTIFICATIONS**



•

# **DECK MECHANISM SECTION**

# 4 head Hi-Fi VIDEO CASSETTE RECORDER

19A-600 / 19A-604 / 19A-620 / 19A-624

#### Sec. 2: Deck Mechanism Section

- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Front Loading Assembly
- Alignment Procedures of Mechanism

# **TABLE OF CONTENTS**

Standard Maintenance	2-1-1
Service Fixtures and Tools	2-2-1
Mechanical Alignment Procedures	
Disassembly / Assembly Procedures of Deck Mechanism	2-4-1
Front Loading Assembly	
Alignment Procedures of Mechanism	

# STANDARD MAINTENANCE

#### **Service Schedule of Components**

H: Hours	O: Check	●: Change
----------	----------	-----------

	Deck	Periodic Service Schedule			
Ref. No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	0	•	0	•
B3	Loading Motor Assembly			•	
B8	Pulley Assembly		•		•
B21	Loading Belt		•		•
B27	Tension Lever Assembly		•		•
B31	AC Head Assembly			•	
B32, B339	Reel (T), Reel (S)			. •	
B37	Capstan Motor		•		•
B52	Capstan Belt		•		•
*B73	FE Head CBA			•	
B132	Clutch Assembly		•		•
B133	Idler Assembly		•		•
B410	Pinch Roller Assembly		•		•
B413	Main Brake T Sub Assembly		•		•
B414	Main Brake S Assembly		•		•

#### Notes:

- 1. Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / Audio Control Head / Full Erase Head) using 90% Isopropyl Alcohol.
- 2. After cleaning the parts, do all DECK ADJUSTMENTS.
- 3. For the reference numbers listed above, refer to Deck Exploded Views.
  - \* B73 ---- VCR Model only

#### Cleaning

#### Cleaning of Video Head

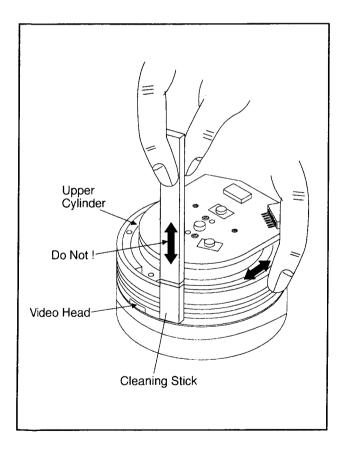
Clean the head with a head cleaning stick or chamois cloth.

#### **Procedure**

- 1. Remove the top cabinet.
- 2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
- 3. Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

#### Notes:

- 1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit.
- 3. Do not reuse a stained head cleaning stick or a stained chamois cloth.



#### **Cleaning of Audio Control Head**

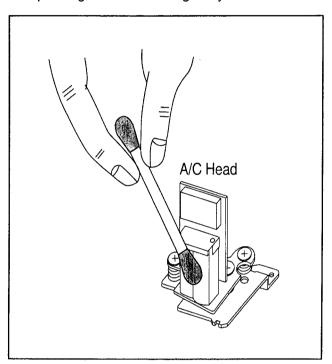
Clean the head with a cotton swab.

#### **Procedure**

- 1. Remove the top cabinet.
- Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

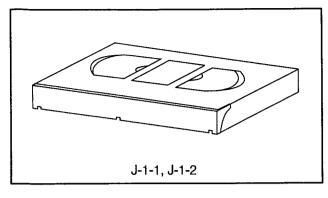
#### Notes:

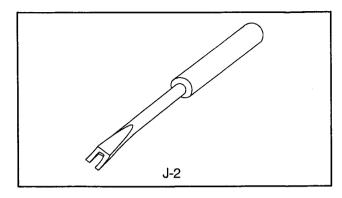
- 1. Avoid cleaning the audio control head vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.

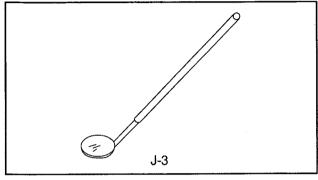


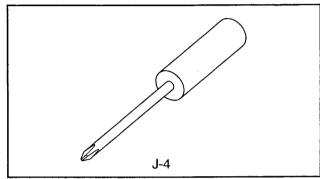
2-1-2

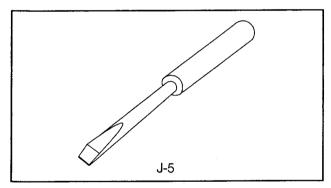
# **SERVICE FIXTURE AND TOOLS**

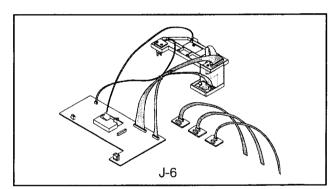












Ref. No. Name Part N		Part No.	Adjustment
J-1-1	Alignment Tape	FL6A	Head Adjustment of Audio Control Head
J-1-2	Alignment Tape	FL6N8 (1speed only) FL6NS8 (2speed only)	Azimuth and X Value Adjustment of Audio Control Head / Adjustment of Envelope Waveform
J-2	Guide Roller Adj.Screwdriver	FSJ-0006	Guide Roller
J-3	Mirror	FSJ-0004	Tape Transportation Check
J-4	Azimuth Adj.Screwdriver +	Available Locally	A/C Head Height
J-5	X Value Adj.Screwdriver -	Available Locally	X Value
J-6	U19 Deck Extension Cable	N1200XA	All Mechanical and Electrical Adjustments

#### Note:

Before starting any adjustment, take the Deck Assembly out of the cabinet and use J-6 to connect the Deck Assembly with the Main CBA.

#### MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

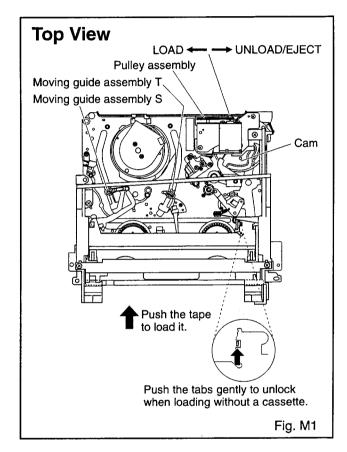
#### **Service Information**

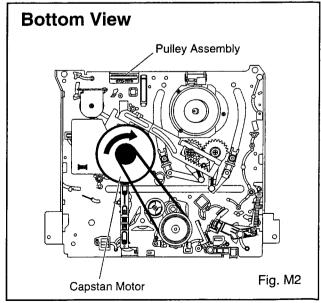
- A. Method for Manual Tape Loading/Unloading
- To load a cassette tape manually:
- 1. Disconnect the AC plug.
- 2. Remove the Top Cover.
- 3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
- 4. Turn the Pulley Assembly in the appropriate direction shown in Fig. M1 until the cassette tape is fully loaded. By turning the Pulley Assembly, you are turning the cam indicated in this figure. However, movement of the cam will be very slow. Allow a minute or two to complete this task.

To unload a cassette tape manually:

- 1. Disconnect the AC plug.
- 2. Remove the Top Cover.
- 3. Turn the Pulley Assembly in the appropriate direction shown in Fig. M1 to unload the cassette tape. When turning the Pulley Assembly, please be aware that this is a long process and the cassette will not start getting unloaded instantaneously. Within this long process, before the cassette actually starts getting unloaded, there is a time period during which the moving guide assemblies slide back to their original positions shown in Fig. M1. However, the tape will be left wound around the cylinder. To put the tape back into the cassette, gently turn the Capstan Motor in the direction shown in Fig. M2. Make sure that the tape is completely placed back in the cassette before the cassette starts getting unloaded. Otherwise the tape hanging out will be caught and damaged by the lid of the cassette when it closes. By turning the Pulley Assembly, you are turning
  - the cam indicated in Fig. M1. As stated, movement of the cam will be very slow. Allow a minute or two to complete this task.
- **B.** Method to place the Cassette Holder in the tapeloaded position without a cassette tape
- 1. Disconnect the AC Plug.

- 2. Remove the Top Cover.
- Turn the Pulley Assembly in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the Pulley Assembly until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.





#### 1. Tape Interchangeability Alignment

#### Notes:

- 1. To do these alignment procedures, make sure that the Tracking Control Circuit is set to the center position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)
- 2. Remove the Guide Holder R before begining alignment procedures.

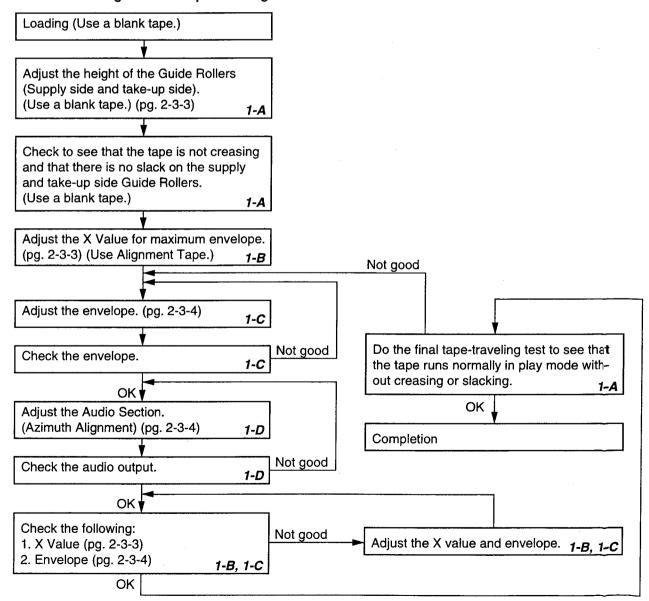
(Refer to page 2-4-9. Fig: DM22).

#### **Equipment required:**

Dual Trace Oscilloscope VHS Alignment Tape (FL6N8) Guide Roller Adj. Screwdriver X-Value Adj. Screwdriver

**Note:** Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

#### Flowchart of Alignment for tape traveling



# 1-A. Preliminary/Final Checking and Alignment of Tape Path

#### Purpose:

To make sure that the tape path is well stabilized.

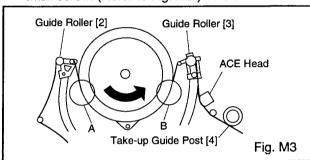
#### **Symptom of Misalignment:**

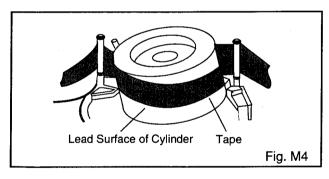
If the tape path is unstable, the tape will be damaged.

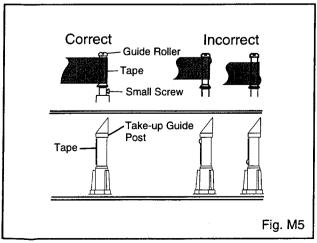
**Note:** Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

- Play back a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig M3 and M4.)
- If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)

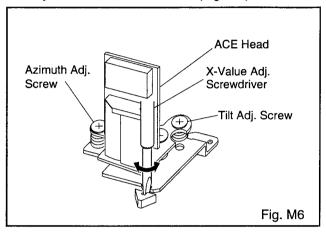
**Note:** Beneath each Guide Roller, there is a small screw. (Refer to Fig. M5.) This screw works







- to apply adequate torque to the shaft of each Guide Roller so that the Guide Roller turns properly. Even when adjusting the height of the Guide Roller(s), do not touch these two small screws.
- Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and ACE Head.
   (Fig. M3 and M5)
- 4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the ACE Head. (Fig. M6)



#### 1-B. X Value Alignment

#### Purpose:

To align the horizontal position of the Audio/Control/Erase Head.

#### **Symptom of Misalignment:**

If the horizontal position of the Audio/Control/Erase Head is not properly aligned, maximum envelope cannot be obtained at the Neutral position of the Tracking Control Circuit.

- Connect the oscilloscope to TP301 (C-PB) and TP303 (CTL) on the Main CBA. Use TP302 (RF-SW) as a trigger.
- Play back the Gray Scale of the Alignment Tape (VFMS0001H6) and confirm that the PB FM signal is present.
- Set the Tracking Control Circuit to the center position by pressing the CH UP button then the PLAY button on the VCR. (Refer to note on bottom of page 2-3-4.)
- 4. Use the X-Value Adj. Screwdriver so that the PB FM signal at TP301 (C-PB) is maximum. (Fig. M6)
- 5. Press the CH UP button on VCR until the CTL waveform has shifted by approx. +2msec. Make sure that the envelope is simply attenuated (shrinks in height) during this process so that you will know the envelope has been at its peak.

- 6. Press the CH DOWN button on the VCR until the CTL waveform has shifted from its original position (not the position achieved in step 5, but the position of CTL waveform in step 4) by approximately -2msec. Make sure that the envelope is simply attenuated (shrinks in height) once CTL waveform passes its original position and is further brought in the minus direction.
- Set the Tracking Control Circuit to the center position by pressing the CH UP button and then the PLAY button on the VCR.

# 1-C. Checking/Adjustment of Envelope Waveform

#### Purpose:

To achieve a satisfactory picture and precise tracking.

#### **Symptom of Misalignment:**

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

- 1. Connect the oscilloscope to TP301 (C-PB) on the Main CBA. Use TP302 (RF-SW) as a trigger.
- 2. Play back the Gray Scale on the Alignment Tape (FL6N8). Set the Tracking Control Circuit to the center position by pressing the CH UP and then the PLAY button on the VCR. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
- 3. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9
- If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- 5. When Guide Rollers [2] and [3] (Refer to Fig. M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.

Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure center position. The number of pushes UP to achieve 1/2 level of envelope should match the number of pushes DOWN from center. If required, redo the "X Value Alignment."

#### 1-D. Azimuth Alignment of Audio/Control/ Erase Head

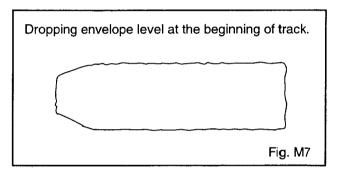
#### Purpose:

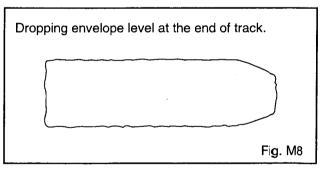
To correct the Azimuth alignment so that the Audio/Control/Erase Head meets tape tracks properly.

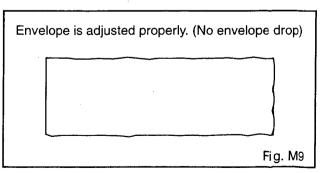
#### **Symptom of Misalignment:**

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- Connect the oscilloscope to the audio output jack on the rear side of the deck.
- 2. Play back the alignment tape (FL6N8) and confirm that the audio signal output level is 6 kHz.
- Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)







# DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

#### Main Mechanism

Before following the procedures described below, be sure to:

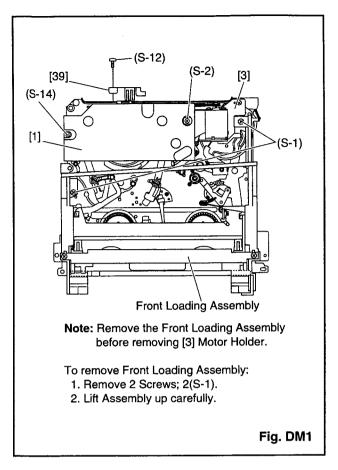
- 1. Remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS on page 1-5-1.)
- 2. Remove Front Loading Assembly from the main mechanism of the deck assembly. (See Fig. DM1.)
- 3. First remove Step/Loc. No. [39], and start to remove other parts. (See Fig. DM1.)
- 4. Before Step/Loc. No. [2] and [9] first remove ACH Connector A, ACH Connector B, VH Connector A, and VH Connector B. (See Fig. DM2.)

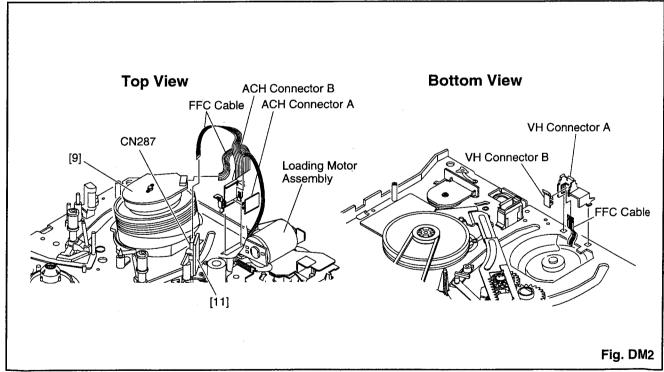
All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [37] and [38] in Fig. DM3 on page 2-4-4. When reassembling, follow the steps in reverse order.

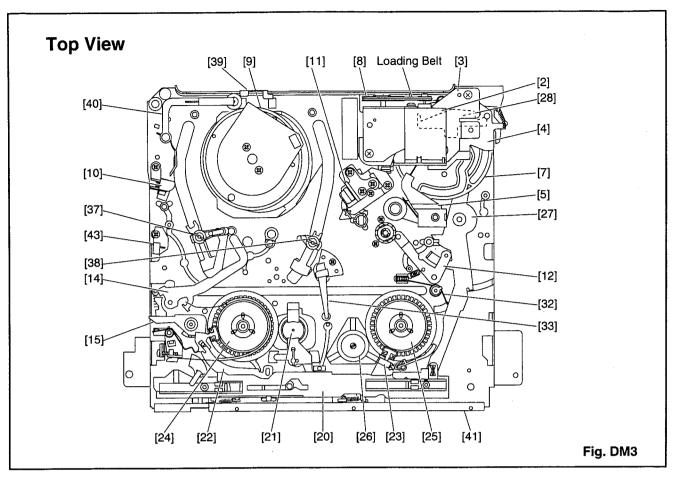
		PART		REMOVAL		INSTALLATION
STEP /LOC. No.	START- ING No.			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Cylinder Shield	Т	DM1	(S-2), (S-14)	
[2]	[2]	Loading Motor Assembly	Т	DM2 DM3 DM5 DM6	(S-3), Loading Belt ACH Connectors A and B, FFC Cable	
[3]	[2]	Motor Holder	Т	DM1 DM3 DM5	2(S-4)	
[4]	[2]	Cassette Drive Lever Sub Assembly	Т	DM3 DM5		(+) Refer to Alignment Sec. Pg. 2-4-10
[5]	[2]	Pinch Roller Assembly	T	DM3 DM5	(C-1)	Refer to Alignment Sec. Pg. 2-4-10
[6]	[6]	Mode SW CBA	В	DM4 DM5	(S-5), Desolder	
[7]	[2]	Cam	Т	DM3 DM5		(+) Refer to Alignment Sec. Pg. 2-4-10
[8]	[2]	Pulley Assembly	Т	DM3 DM6	(W-1), Loading Belt	(+)
[9]	[9]	Cylinder Assembly	T B	DM2 DM3 DM7	3(S-6), *VH Connectors A and B, FFC Cable	
[10]	[10]	FE Head	Т	DM3 DM7	(S-7)	
[11]	[11]	ACE Head Assembly	T	DM2 DM3 DM8	(S-8), (S-16), FFC Cable	
[12]	[12]	Tape Guide Arm Assembly	Т	DM3 DM8	*(P-0), *(L-1)	
[13]	[12]	Capstan Motor	B T	DM4 DM5 DM9 DM16	4(S-9), Capstan Belt, Radiator Plate, Desolder	
[14]	[14]	M Brake S Assembly	Т	DM3 DM10	*(L-4)	
[15]	[15]	Tension Lever Assembly	Т	DM3 DM10	*(L-2), *(L-3), *(P-1), *(P-2)	
[16]	[16]	Rec Arm	В	DM4 DM11	*(L-5)	
[17]	[17]	BT Arm	В	DM4 DM10 DM11	*(L-6), *(P-2)	
[18]	[17]	Holder Kick Arm	В	DM4 DM11	*(P-3)	
[19]	[17]	Tension Plate	В	DM4 DM11		
[20]	[17]	Mode Lever	Т	DM3 DM12	*4(L-7), *(L-8), *Locking Tab	

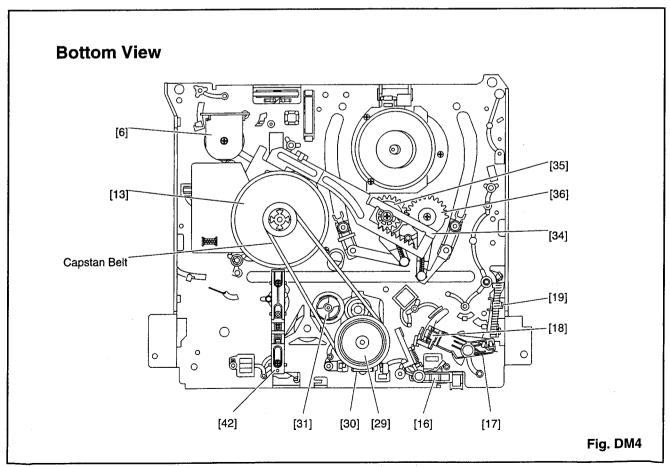
STEP				REMOVAL	INSTALLATION	
/LOC. No.	ING No.	PART		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[21]	[17]	Idler Assembly	Т	DM3 DM13	(C-4)	
[22]	[15]	S Brake Lever	T	DM3 DM14	*(P-4), *(L-10)	
[23]	[17]	M Brake T sub Assembly	T	DM3 DM13	*(P-5), *(L-11)	
[24]	[15]	Reel S	Т	DM3 DM14	Poly Slider Washer	(+) Base has slots.
[25]	[17]	Reel T	T	DM3 DM14	Poly Slider Washer	(+)
[26]	[26]	M Gear	Т	DM3 DM14	(C-5)	
[27]	[2]	Main Lever Assembly	T	DM3 DM15		
[28]	[2]	M Lever Holder	T	DM3 DM15	*2(L-12)	
[29]	[29]	Clutch Assembly	В	DM4 DM16	(C-2), Capstan Belt, Poly Slider Washer	(+)
[30]	[29]	FF Arm	В	DM4 DM16	*2(L-13)	
[31]	[31]	Sensor Gear	В	DM4 DM17	(C-3)	
[32]	[32]	Main Lever Spring	T	DM3 DM8		,
[33]	[33]	Prism	Т	DM3 DM13	(S-10)	
[34]	[12]	Loading Lever Assembly	В	DM4 DM18	(S-11)	(+) Refer to Alignment Sec. Pg. 2-4-10
[35]	[34]	Loading Arm T Assembly	В	DM4 DM18		(+) Refer to Alignment Sec. Pg. 2-4-10
[36]	[34]	Loading Arm S Assembly	В	DM4 DM18	(S-15)	(+) Refer to Alignment Sec. Pg. 2-4-10
[37]	[2]	Moving Guide S Preparation	Т	DM3 DM19		
[38]	[2]	Moving Guide T Preparation	Т	DM3 DM19		
[39]	[39]	Deck Earth Plate	Т	DM1 DM3	(S-12)	
[40]	[40]	Cleaner Assembly	Т	DM3 DM7	*(L-14)	
[41]	[41]	Insulation Cover	Т	DM3 DM13	*3(L-15)	
[42]	[42]	F Brake Assembly	В	DM4 DM9	2(S-13), *(P-6)	
[43]	[43]	Prism (L2)	T	DM3 DM8	(S-17)	
<del>1</del>	<b>2</b>	<b>↓</b> ③	4	↓ ⑤	6	<b>†</b>

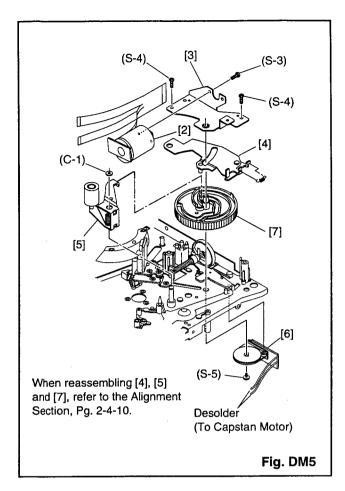
- ①: Follow steps in sequence. When reassembling, follow the steps in reverse order. These numbers are also used as Identification (location) No. of parts in the figures.
- 2: Indicates the part to start disassembling with in order to disassemble the part in column (1).
- 3: Name of the part
- 4: Location of the part: T=Top B=Bottom R=Right L=Left
- 5: Figure Number
- 6: Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered. P=Spring, W=Washer, C=Cut Washer, S=Screw, \*=Unhook, Unlock, Release, Unplug, or Desolder e.g., 2(L-2) = two Locking Tabs (L-2).
- 7: Adjustment Information for Installation
  (+): Refer to Deck Exploded Views for Iubrication.

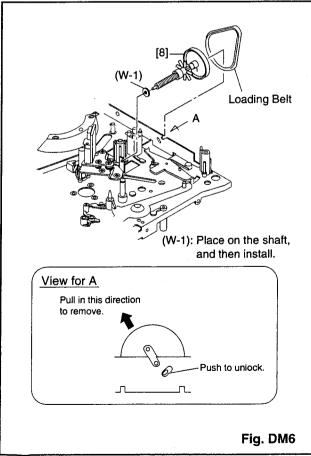


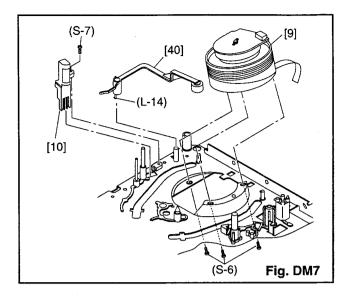


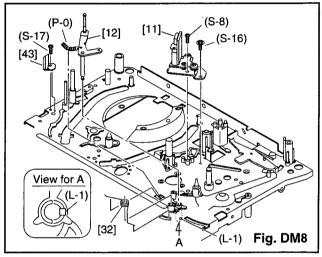


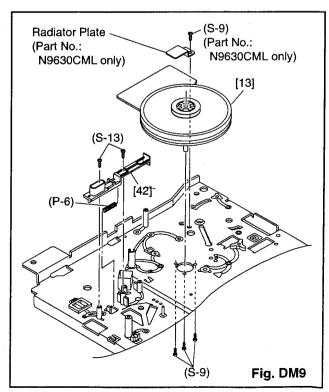


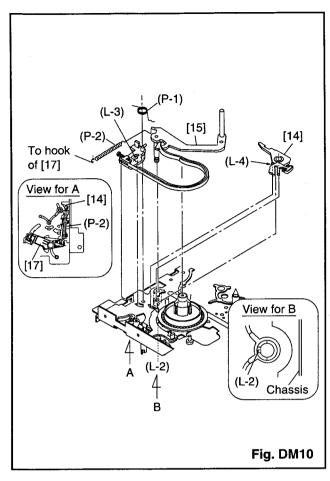


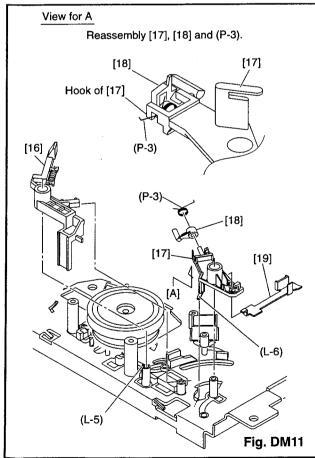


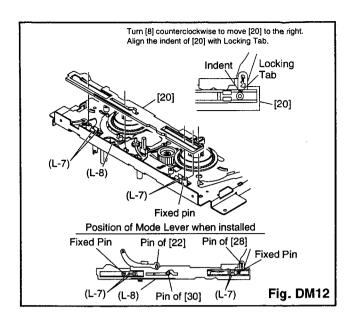


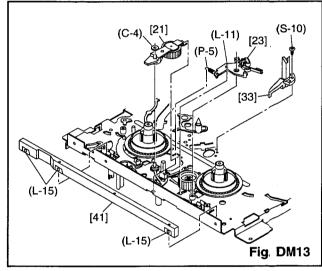


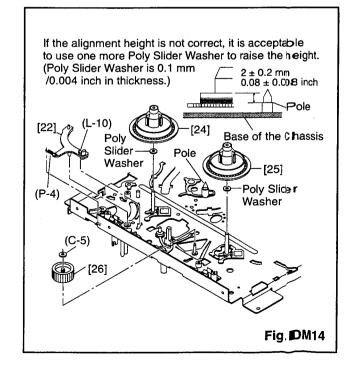


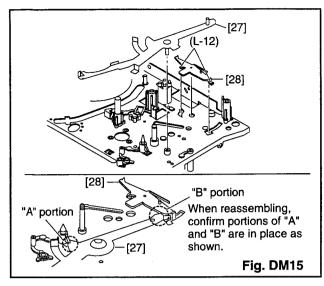


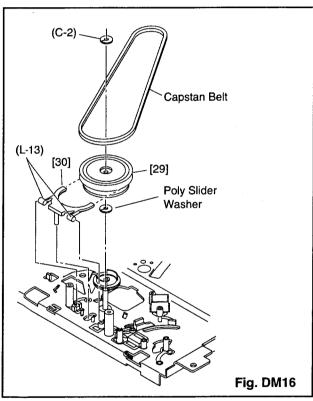


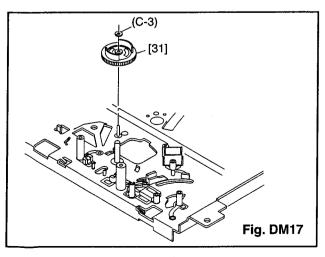


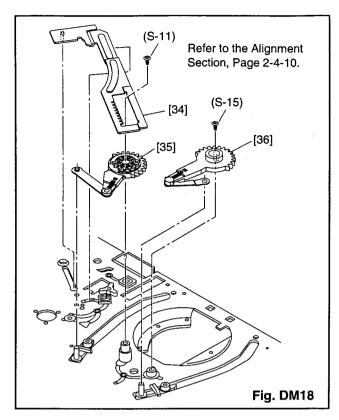


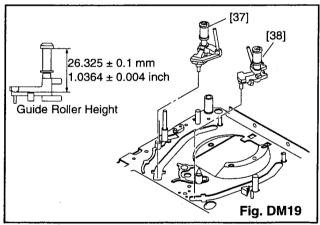












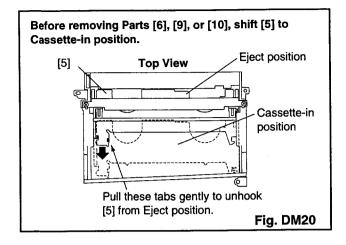
### Front Loading Assembly

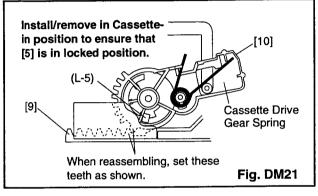
Before following the procedures described below, be sure to remove Front Loading Assembly from the main mechanism of the deck assembly. (See Fig. DM1.) When reassembling, start with the unit in Cassette-in mode and follow the steps in reverse order.

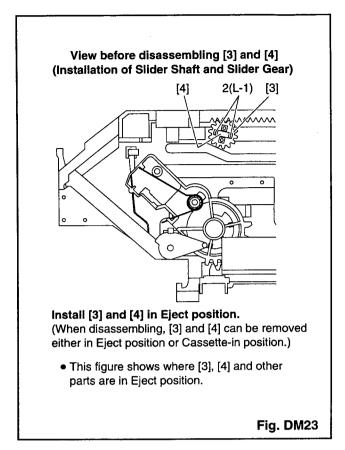
STEP		PART			REMOVAL	INSTALLATION
/LOC. No.	ING No.			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Guide Holder (F)	Т	DM22	2(S-1)	
[2]	[1]	Guide Holder (R)	Т	DM22	(L-1)	
*[3]	[3]	Slider Gear	R	DM22 DM23	2(L-2)	Eject Position
*[4]	[0]	Slider Gear	L	DM22 DM23	2(L-3)	Eject Position
*[4]	[3]	Slider Shaft	Т	DM22 DM23		Eject Position
[5]	[1]	Cassette Plate sub Assembly	Т	DM20 DM21 DM22	(S-2)	
[6]	[1]	Cassette Guide R	R	DM20 DM21 DM22	·	
[7]	[1]	Cassette Guide L	L	DM22		
[8]	[8]	Front Door Opener	R	DM22 DM23	(L-4)	Eject Position
[9]	[9]	Rack	R	DM20 DM21 DM22	(L-5)	Cassette in Position
[10]	[9]	Cassette Drive Gear (N)	R	DM20 DM21 DM22	(L-6),Cassette Drive Gear Spring	Cassette in Position
1	2	<u> </u>	4	<b>↓</b> ⑤	6	<b>†</b>

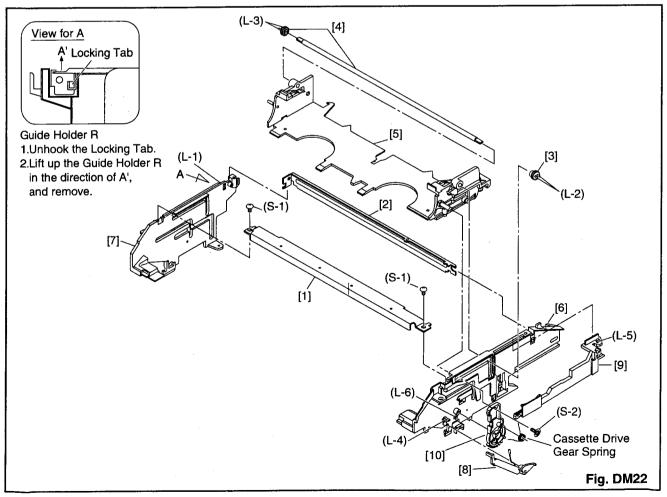
- 1: Follow steps in sequence. When reassembling, follow the steps in reverse order.

  These numbers are also used as Identification (location) No. of parts in the figures.
- 2: Indicates the part to start disassembling with in order to disassemble the part in column (1).
- 3: Name of the part
- (4): Location of the part: T=Top B=Bottom R=Right L=Left
- (5): Figure Number
- 6: Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered. P=Spring, W=Washer, C=Cut Washer, S=Screw, \*=Unhook, Unlock, Release, Unplug, or Desolder e.g., 2(L-2) = two Locking Tabs (L-2).
- (+): Refer to Deck Exploded Views for Inbrication.
- \*[3], \*[4]: Slider Gear in Step [3] and that in Step [4] are identical. However, they are divided into two steps because, before reassembling Slider Shaft, one Slider Gear must be preinstalled at either end of Slider Shaft.









### **ALIGNMENT PROCEDURES OF MECHANISM**

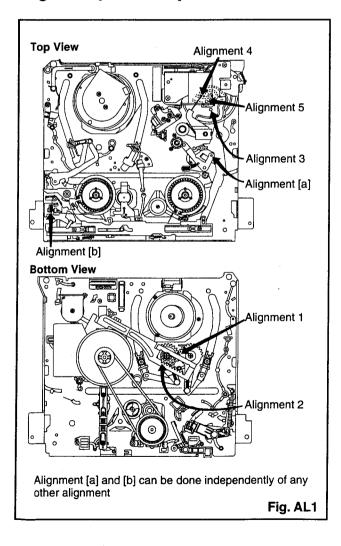
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

#### **IMPORTANT:**

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

### Alignment points in Eject Position



### Alignment 1

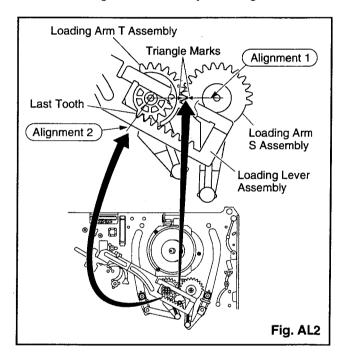
### Loading Arm, S and T Assembly

 Install Loading Arm S and T Assembly so that their triangle marks point to each other as shown in Fig. AL2.

### Alignment 2

### **Loading Lever Assembly**

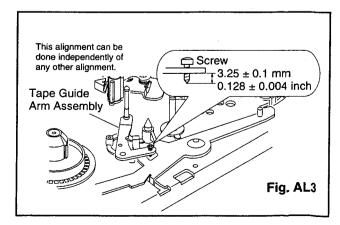
Keeping the two triangles pointing at each other, install the Loading Arm T Assembly so that the last tooth of the gear meets the most inside teeth of the Loading Lever Assembly. See Fig. AL2.

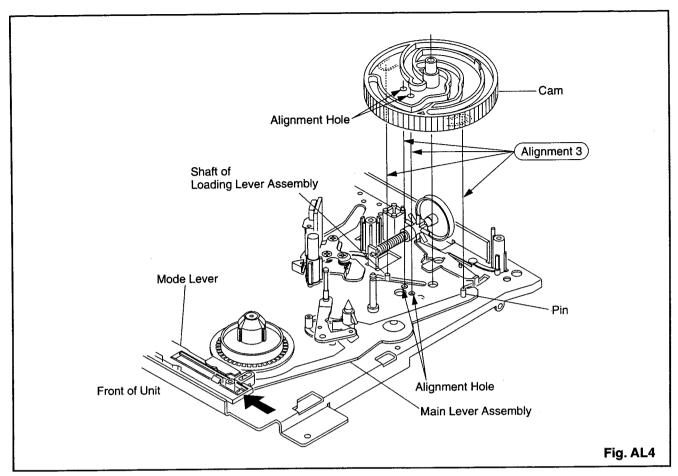


### Alignment [a]

### **Tape Guide Arm Assembly**

 Measurement of the screw must be as specified in Fig. AL3.





### Alignment 3

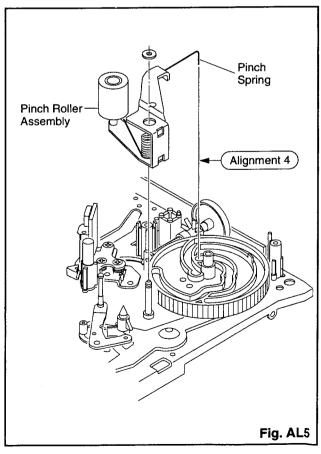
### Cam

- 1. Make sure that the mechanism is in Eject mode so that the shaft of Loading Lever Assembly is in the position shown in Fig. AL4.
- Align the alignment hole of the Cam with the alignment hole of the base, holding the Cam just above the base.
- Carefully keeping these two holes aligned, push Mode Lever in the direction of the arrow to install the Cam. The Mode Lever must be pushed to make the pin on the Main Lever Assembly fit in the proper groove in the lower Cam.
- 4. After installing the Cam, make sure that the alignment hole of the Cam is still aligned with the base hole and that the pin on the Main Lever Assembly and the shaft of the Loading Lever Assembly are inserted into the proper grooves of the lower Cam as specified in Fig. AL4.

### Alignment 4

### **Pinch Roller Assembly**

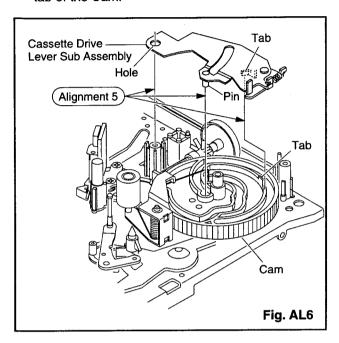
1. Ensure that the Spring of the Pinch Roller Arm Assembly is positioned in the end of the groove of the upper Cam as shown in Fig. AL5.



### Alignment 5

### **Cassette Drive Lever Sub Assembly**

 Ensure that the pin of the Cassette Drive Lever Sub Assembly is positioned in the groove of the upper Cam and that the hole is positioned as shown in Fig. AL6. Then, make sure that the tab of the Cassette Drive Lever Sub Assembly is outside of the tab of the Cam.

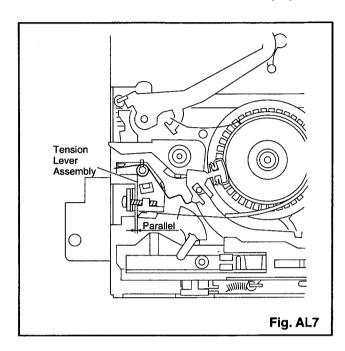


### Alignment [b]

This alignment can be performed independently of any other alignment.

### **Tension Lever Assembly**

 Ensure that Tension Lever Assembly is positioned parallel to the chassis' notch as shown in Fig. AL7. This measurement can be made by eye.



# EXPLODED VIEWS AND PARTS LIST SECTION

# 4 head Hi-Fi VIDEO CASSETTE RECORDER 19A-600 / 19A-604 / 19A-620 / 19A-624

Sec. 3: Exploded Views and Parts List Section

- Exploded Views
- Parts List

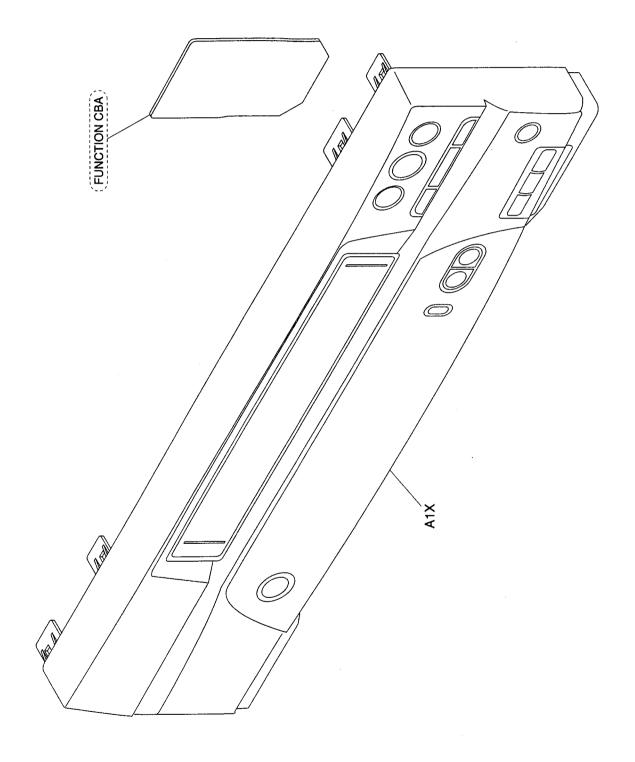
# **TABLE OF CONTENTS**

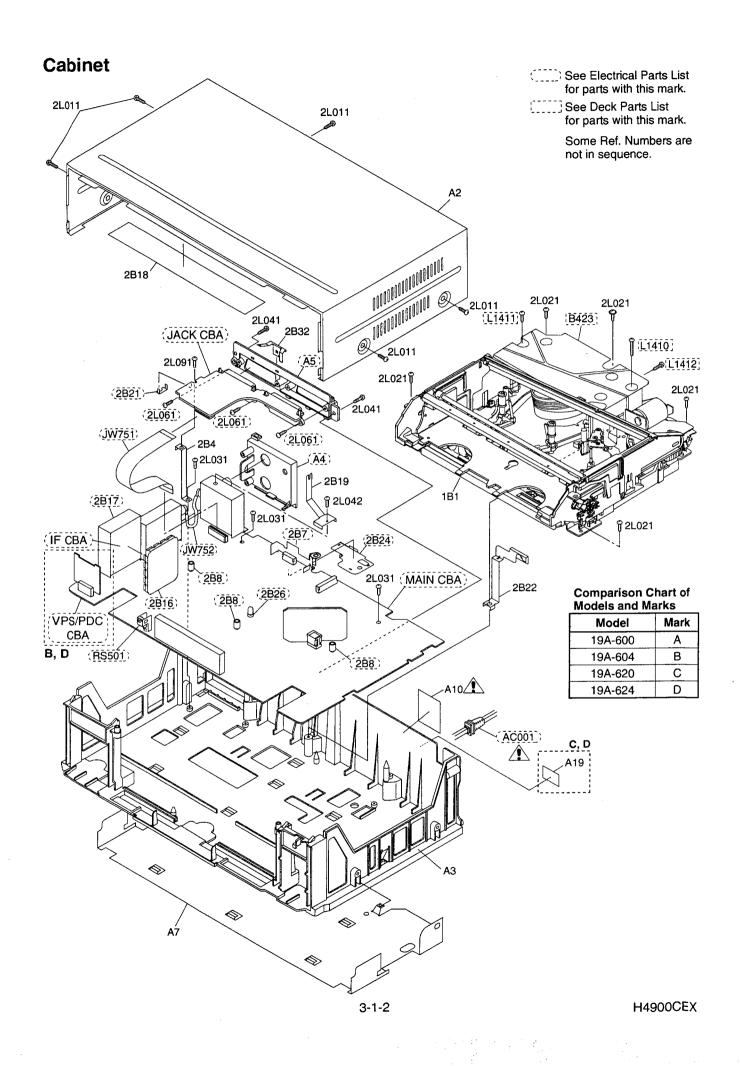
Exploded Views	3-1-1
Mechanical Parts List	3-2-1
Electrical Parts List	3-3-1
Deck Parts List	

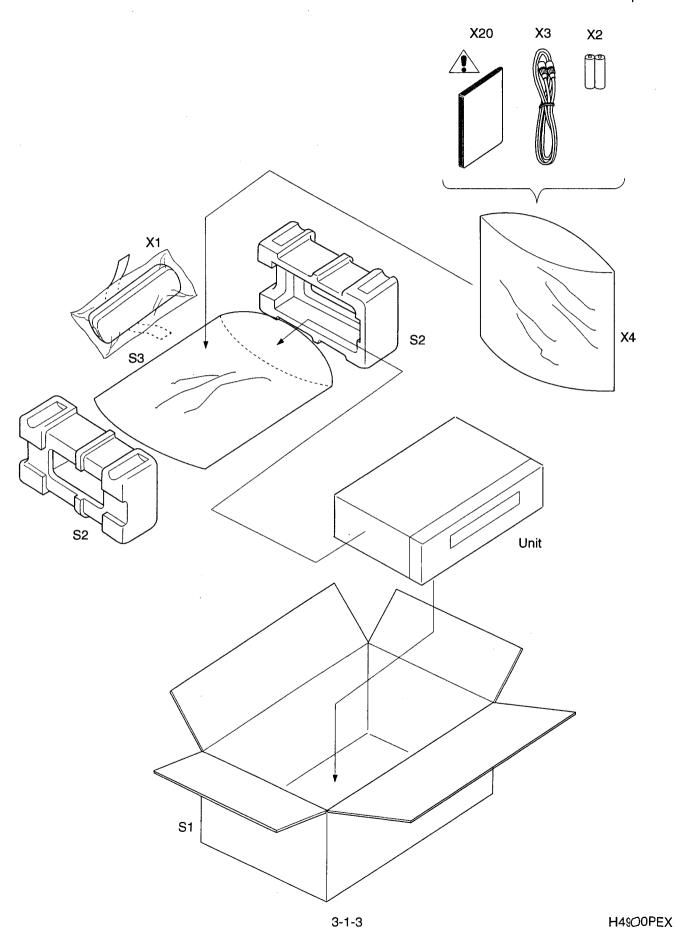
# **EXPLODED VIEWS**

# **Front Panel**

See Electrical Parts List for parts with this mark.

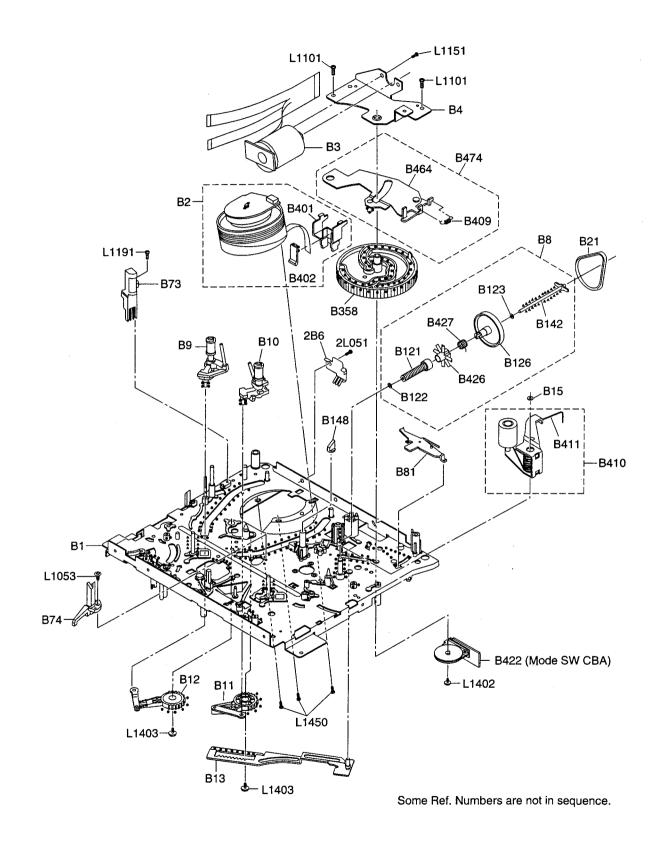






# **Deck Mechanism View 1**

Mark	Description		Part No.
••••	Floil G-374G	(Blue grease)	0VZZ00109
	Hydro-Fluid EP56	(Spindle oil)	0VZZ00068

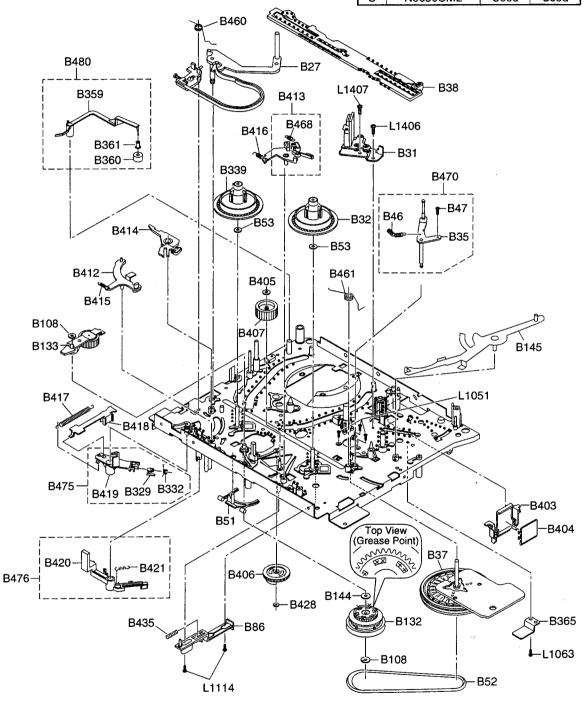


### **Deck Mechanism View 2**

Mark	Description		Part No.
×××××	Sankol FG-84M	(White grease)	0VZZ00062
••••	Floil G-374G	(Blue grease)	0VZZ00109
4444	Hydro-Fluid EP56	(Spindle oil)	0VZZ00068

Note: Three different, but interchangeable, types of Capstan Motor (B37) may be installed in these models. Based on the type of capstan motor, items B365 and L1063 will be used/not used as shown in the table below.

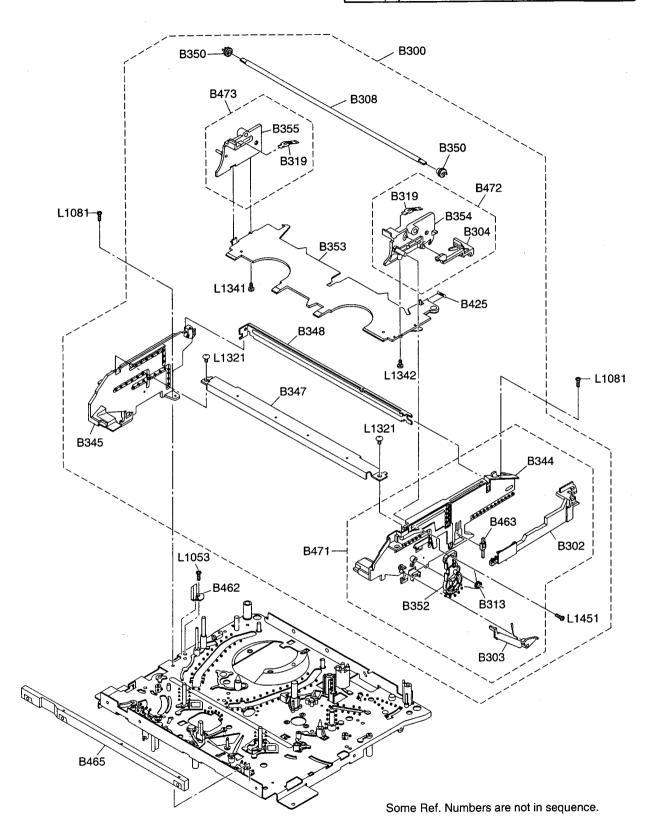
Туре	ID No.	B365	L1063
Α	MMDZB12SJ007	Not used	Not used
В	MMDZB12SJ006	Not used	Not used
C	N9630CMI	Lised	Used



Some Ref. Numbers are not in sequence.

# **Deck Mechanism View 3**

Mark	Description		Part No.
••••	Floil G-374G	(Blue grease)	0VZZ00109
***	Hydro-Fluid EP56	(Spindle oil)	0VZZ00068



# **MECHANICAL PARTS LIST**

PRODUCT SAFETY NOTE: Products marked with a 
⚠ have special characteristics important to safety. Before replacing any of these components, read carefully
the product safety notice in this service manual. Don't
degrade the safety of the product through improper servicing.

Ref. No.	Mark	Description	Part No.
A1X	A,B	FRONT ASSEMBLY	0VM202567
A1X	C,D	FRONT ASSEMBLY	0VM202568
A2		CASE, TOP(PLATINUM) PLATINUM COLOR	0VM202423
A3		CHASSIS(PLATINUM) PLATINUM COLOR	0VM202424
A4		JACK BOARD(GK) (See Electrca Parts List)	
A5		JACK BOARD:2-21P U17 FTZ (See Electrca Parts List)	
A7		PANEL, BOTTOM U17 FTZ	0VM202353
A10 🕰	Α	LABEL, RATING	0VM409941
A10 🛧	В	LABEL, RATING	0VM409940
A10 🗥	c	LABEL, RATING	0VM409967
A10 🛧	D	LABEL, RATING	0VM409968
A19	C,D	LABEL, SHOW VIEW	0VM407596
AC001 ⚠		AC CORD LA-2289 (See Electrca Parts List)	
181		DECK ASSEMBLY or	N8162XK
		DECK ASSEMBLY	N8162FK
2B4		EARTH PLATE(21P)	0VM409010
2B7		SHIELD, HEAD(U19 PAL) (See Electrca Parts List)	
2B8		BUSH, LED(F) (See Electrca Parts List)	
2B16		SHIELD, TOP(NICAM) (See Electrca Parts List)	
2B17		SHIELD, BOTTOM(NICAM) (See Electrca Parts List)	
2B18		FIBER, TOP CASE U15 PAL	0VM408394
2B19		EARTH PLATE(CONV)	0VM409009A
2B21		EARTH PLATE(PCB) (See Electrca Parts List)	•
2B22		EARTH PLATE(TOP CASE)	0VM409008
2B24		SHIELD, HEAD(BOTTOM) (See Electrca Parts List)	
2B26		BUSH, LED(E) (See Electrca Parts List)	
2B32		EARTH PLATE(JACK BOARD)	0VM409108
2L011		SCREW, P-TIGHT 3X12 BIND HEAD+	GBCP3120
2L021		SCREW, P-TIGHT M3X10 WASHER HEAD+	GCMP3100
2L031		P-TIGHT SCREW 3X8 BIND + CHROME	GBMP3080
2L041		SCREW, P-TIGHT 3X12 BIND HEAD+	GBCP3120
2L042		SCREW M3X3 PAN HEAD +	SPM33030
2L061		P-TIGHT SCREW 3X8 BIND + CHROME (See Electrca Parts List)	
2L091		SCREW, P-TIGHT M3X10 WASHER HEAD+	GCMP3100
PACKING			
S1	Α	GIFT BOX CARTON	0VM303809
S1	В	GIFT BOX CARTON	0VM303810
S1	С	GIFT BOX CARTON	0VM303832
S1	D	GIFT BOX CARTON	0VM303833
S2		STYROFOAM U15 PAL	0VM202137
S3		ACCESSORY BAG 470X560X0.05T	Z547560

### Comparison chart of Models and Marks

Model	Mark
19A-600	Α
19A-604	В
19A-620	С
19A-624	D

Ref. No.	Mark	Description	Part No.		
	ACCESSORIES				
X1	A,B	REMOTE CONTROL UNIT 364/CRC004	N9241 EN		
X1	C,D	REMOTE CONTROL UNIT 364/CRC004	N9386EN		
X2		DRY BATTERY R6P UM3 or	XB0M451GH001		
		DRY BATTERY R6P or	XB0M451T0001		
		DRY BATTERY R6SSE/2S	XB0M451MS002		
X3		RF CORD PAL 1.2M	WPZ0122LG001		
X4		ACCESSORY BAG	0VM404632		
X20 🛧	Α	OWNER'S MANUAL	0VMN02298		
X20 🛧	В	OWNER'S MANUAL	0VMN02299		
X20 🔨	С	OWNER'S MANUAL	0VMN02314		
X20 \Lambda	D	OWNER'S MANUAL	0VMNO2315		

# **ELECTRICAL PARTS LIST**

PRODUCT SAFETY NOTE: Products marked with a 
⚠ have special characteristics important to safety. Before replacing any of these components, read carefully
the product safety notice in this service manual. Don't
degrade the safety of the product through improper servicing.

**NOTE:** Parts that not assigned part numbers (———) are not available.

Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	D±0.5%	F±1%
G±2%	J±5%	K±10%
M±20%	N±30%	Z+80/-20%

### **Comparison chart of Models and Marks**

Model	Mark
19A-600	Α
19A-604	В
19A-620	С
19A-624	D

### **MCV CBA**

Ref. No.	Mark	Description	Part No.
	A,B	MCV CBA (Main +Function +IF)	0VSA09775
	C,D	MCV CBA (Main +Function +IF)	0VSA09790
	'	Consists of the following:	
		MAIN CBA (MCV-A)	
		FUNCTION CBA (MCV-B)	
IF701		IF CBA (IFV)	0VSA09777

Main CBA (MCV-A)

Ref. No.	Mark	Description	Part No.			
CAPACITORS						
C001 🛧		FILM CAP.(MP) 0.047µF/250V M or	CT2E473DC009			
$\triangle$		METALLIZED FILM CAP. 0.047μF/250V M	CA2E473MS005			
C002 🛧		FILM CAP.(MP) 0.047µF/250V M or	CT2E473DC009			
$\Delta$		METALLIZED FILM CAP. 0.047μF/250V M	CA2E473MS005			
C003 🛧		SAFTY CAP. 2200pF/250V KX or	CCN2EMP0E222			
$\triangle$		SAFETY CAP. 2200pF/400V M	CCN2HMP0E222			
C004		ELECTROLYTIC CAP. 22µF/400V M or	CA2H220S6006			
		ELECTROLYTIC CAP. 22µF/400V M(LÑZ)	CA2H220NC010			
C005		CERAMIC CAP. B K 0.01µF/500V or	CCD2JKP0B103			
		CERAMIC CAP. 0.01µF/500V	CA2J103TU001			
C006		CERAMIC CAP. SL K 56pF/1KV or	CCD3AKPSL560			
		CERAMIC CAP, SL J 56pF/1KV or	CCD3AJPSL560			
		CERAMIC CAP. SL K 56pF/2KV	CCD3DKPSL560			
C007		SEMICONDUCTOR CAP. SR K 0.039µF/25V or	12Y2393S			
		SEMICONDUCTOR CAP. SR K 0.039µF/25V	CDA1EKS0X393			
C008		CERAMIC CAP (AX) X K 3300pF/16V	CDA1CKT0X332			

CO00         CERAMIC CAP(IAX) X K 4700pF/16V         COATCKTOX472           C010         SEMICONDUCTOR CAP. SR K         0.022µF25V or           SEMICONDUCTOR CAP. SR K         0.022µF25V           C014         ELECTROLYTIC CAP. 4.7µF/50V M         CE1JMASDL4R7           C015         FILM CAP(P) 0.0012µF/100V J or         CMB2AJS00122           FILM CAP(P) 0.0012µF/100V J or         CMB2AJS00122           C016         ELECTROLYTIC CAP. 470µF/16V M         CE1CMASDL471           C017         ELECTROLYTIC CAP. 330µF/16V M         CE1CMASDL471           C018         ELECTROLYTIC CAP. 300µF/16V M         CE1CMASDL331           C019         ELECTROLYTIC CAP. 100µF/16V M         CE1CMASDL331           C020         ELECTROLYTIC CAP. 100µF/16V M         CE1CMASDL331           C021         CERAMIC CAP(AX) Y M 0.01µF/16V M         CE1CMASDL31           C022         CERAMIC CAP(AX) S M 0.01µF/16V M         CE1AMASDL01           C023         SEMICONDUCTOR CAP. SR K         CD22µF/26V or           C024         CERAMIC CAP(AX) B J 150pF/50V or         CCA1JJTS0151           C055         CERAMIC CAP(AX) B L 150pF/50V or         CCA1JJTS0151           C056         CERAMIC CAP(AX) B L 470pF/50V or         CCA1JJTS0151           C056         CERAMIC CAP(AX) B L 470pF/50V or	Ref. No.	Mark	Description	Part No.
C010         SEMICONDUCTOR CAP, SR K 0.022µF/25V or SEMICONDUCTOR CAP, SR K 0.022µF/25V or FILM CAP(P) 0.0012µF/100V J FILM CAP(P) 0.0012µF/100V J or FILM CAP(P) 0.0012µF/100V J or FILM CAP(P) 0.0012µF/100V J or FILM CAP(P) 0.0012µF/100V J or FILM CAP(P) 0.0012µF/100V J ELECTROLYTIC CAP, 470µF/16V M ELECTROLYTIC CAP, 230µF/16V M ELECTROLYTIC CAP, 100µF/16V M CO20         CE1CMASDL331 CE1CMASDL331 CE1CMASDL31 CE1CMAS	C009			
SEMICONDUCTOR CAP. SR K   CDA1EKSOX223   O.022µF/26V   CE1JMASDL4R7   CMB2AJS00122   FILM CAP.(P) 0.0012µF/100V J TV or FILM CAP.(P) 0.0012µF/16V M   CE1CMASDL471   CE1CMASDL	C010			12Y2223S
0.022µF/25V			0.022μF/25V or	
C014   ELECTROLYTIC CAP. 4.7µF/50V M   CE1JMASDL4R7   C015   FILM CAP.(P) 0.0012µF/100V J TV or FILM CAP.(P) 0.0012µF/100V J or FILM CAP.(P) 0.0012µF/16V M   CE1CMASDL471   C016   ELECTROLYTIC CAP. 470µF/16V M   ELECTROLYTIC CAP. 230µF/16V M   CE1CMASDL313   C019   ELECTROLYTIC CAP. 230µF/16V M   ELECTROLYTIC CAP. 100µF/16V M   CE1CMASDL313   C020   ELECTROLYTIC CAP. 100µF/16V M   CE1CMASDL313   C021   CERAMIC CAP.(AX) Y M 0.01µF/16V   CE0KMASDL101   C022   CERAMIC CAP.(AX) Y M 0.01µF/16V   CE0KMASDL101   C023   SEMICONDUCTOR CAP. SR K   C022µF/25V or SEMICONDUCTOR CAP. SR K   C022µF/25V or SEMICONDUCTOR CAP. SR K   C022µF/25V or CERAMIC CAP.(AX) B K 150pF/50V or CERAMIC CAP.(AX) B J 150pF/50V   CCA1.JJT08151   C052   CERAMIC CAP.(AX) B J 150pF/50V   CCA1.JJT08151   CCA1.JJT08151   C053   CERAMIC CAP.(AX) S J 470pF/50V or CEAMIC CAP.(			SEMICONDUCTOR CAP. SR K	CDA1EKS0X223
C015			•	
FILM CAP.(P) 0.0012\(\mu\)F1100V J or   FILM CAP.(P) 0.0012\(\mu\)F118V M   ELECTROLYTIC CAP. 470\(\mu\)F18V M   CE1CMASDL471	C014		•	
FILM CAP.(P) 0.0012µF/160V J   1255122S   CE1CMASDL471   CE1CMAS	C015		FILM CAP.(P) 0.0012μF/100V J TV or	CMB2AJS00122
C016         ELECTROLYTIC CAP. 470μF/16V M ELECTROLYTIC CAP. 230μF/16V M ELECTROLYTIC CAP. 22μF/50V M ELECTROLYTIC CAP. 230μF/16V M ELECTROLYTIC CAP. 1000μF/63V M ELECTROLYTIC CAP. 1000μF/16V M C022         CE1CMASDL331 CE0KMASDL102 CE1CMASDL301 CE0CMASDL301 CCA1JMT08151 CCCA1JMT08151 CCA1JMT08151 CCA1JMT08151 CCA1JMT08151 CCA1JMT08151 CCA1JMT08151 CCA1JMT08151 C			FILM CAP.(P) 0.0012µF/100V J or	CMA2AJS00122
C017         ELECTROLYTIC CAP. 330μF/16V M ELECTROLYTIC CAP. 23μF/50V M ELECTROLYTIC CAP. 330μF/16V M ELECTROLYTIC CAP. 100μF/16V M C020         CE1CMASDL230 CE1MASDL220 CE1CMASDL331 CE1CMASDL331 CE1CMASDL331 CE1CMASDL331 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL315 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL310 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311			FILM CAP.(P) 0.0012μF/100V J	1255122S
C017         ELECTROLYTIC CAP. 330μF/16V M ELECTROLYTIC CAP. 23μF/50V M ELECTROLYTIC CAP. 330μF/16V M ELECTROLYTIC CAP. 100μF/16V M C020         CE1CMASDL230 CE1MASDL220 CE1CMASDL331 CE1CMASDL331 CE1CMASDL331 CE1CMASDL331 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL310 CE1CMASDL315 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL310 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL310 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311 CE1CMASDL311	C016		ELECTROLYTIC CAP. 470µF/16V M	CE1CMASDL471
C018         ELECTROLYTIC CAP. 22µF/50V M ELECTROLYTIC CAP. 100µF/63V M ELECTROLYTIC CAP. 100µF/63V M C021         CE1JMASDL220 CE1CMASDL331 CE0KMASDL102 CE1AMASDL101 CE1AMASDL101 CD12MASDL102 CE1AMASDL101 CD12MASDL101 CD12MASDL102 CE1AMASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CD14MASDL101 CCA1JJT0B151 CCA1JJT0B10 CCA1JJT0B101 CCA1	C017			CE1CMASDL331
C019         ELECTROLYTIC CAP. 300μF/16V M ELECTROLYTIC CAP. 100μF/16V M CERAMIC CAP(AX) Y M 0.01μF/16V CE1AMASDL102 CE22         CERAMIC CAP(AX) Y M 0.01μF/16V CE1AMASDL101 CE2AMIC CAP(AX) W 10.01μF/16V CE1AMASDL101 CE2AMIC CAP(AX) B J 150pF/50V or CERAMIC CAP(AX) S L 15pF/50V Or CERAMIC CAP(AX) S L 15pF/50V Or CERAMIC CAP(AX) S L 470pF/50V or CERAMIC CAP(AX) B J 470pF/50V or CERAMIC CAP(AX) F Z 0.1μF/50V or CENAMIC CAP(AX) F Z 0.1μF/50V or CE1JMASSL010 CE1JMASSL	C018		•	CE1JMASDL220
C020   ELECTROLYTIC CAP. 1000μF/6.3V M   CE0KMASDL102				CE1CMASDL331
C021         ELECTROLYTIC CAP. 100μF/10V M CETAMASDL101         CC22         CETAMIC CAP.(AX) Y M 0.01 μF/16V CDA1CMT0Y103           C023         SEMICONDUCTOR CAP. SR K 0.022μF/25V SEMICONDUCTOR CAP. SR K 0.022μF/25V CETAMIC CAP.(AX) B J 150pF/50V or CETAMIC CAP.(AX) B J 150pF/50V or CETAMIC CAP.(AX) B J 150pF/50V CCA1JJT0B151         CCA1JKT0B151 CCA1JJT0B151         CCA1JKT0B151 CCA1JJT0B151         <				
CO22         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103           CO23         SEMICONDUCTOR CAP. SR K         0.022 μF/25V or         CDA1EKS0X223           CO24         CERAMIC CAP.(AX) B K 150pF/50V or         CCA1JKT0B151         CCA1JKT0B151           C051         CERAMIC CAP.(AX) B J 150pF/50V         CCA1JJT0B151         CCA1JJT0B151           C052         ELECTROLYTIC CAP. 0.47μF/50V M         CEJAMASDLR47         CDA1CMT0Y103           C053         CERAMIC CAP.(AX) B K 470pF/50V or         CERAMIC CAP.(AX) B K 470pF/50V or         CCA1JJT0B411         CCA1JJT0B471           C056         CERAMIC CAP.(AX) B J 470pF/50V or         CCA1JKT0B471         CCA1JKT0B471         CCA1JKT0B471           C057         ELECTROLYTIC CAP. 470μF/6.3V M         CELOTROLYTIC CAP. 470μF/6.3V M         CELOTROLYTIC CAP. 470μF/6.3V M         CELOTROLYTIC CAP. 470μF/6.3V M         CELOTROLYTIC CAP. 470μF/10V M         CELOTROLYTIC CAP. 470μF/16V         CELOTROLYTIC CAP. 470μF/16V         CELOTROLYTIC CAP. 470μF/16V         CELOTROLYTIC CAP. 470μF/16V         CELOTROLYTIC CAP. 10μF/16V         CELOTROLYTIC CAP. 10μF/16V </td <td></td> <td></td> <td></td> <td></td>				
C023   SEMICONDUCTOR CAP. SR K   0.022μF/25V or SEMICONDUCTOR CAP. SR K   0.022μF/25V or SEMICONDUCTOR CAP. SR K   0.022μF/25V or CERAMIC CAP.(AX) B K 150pF/50V or CERAMIC CAP.(AX) B J 150pF/50V or CERAMIC CAP.(AX) B J 150pF/50V or CERAMIC CAP.(AX) S L J 15pF/50V   CCA1JJT0B151   CCA1JJT0B151   CCA2, CAX   CCA2, C				1 - 1
0.022μF/25V or   SEMICONDUCTOR CAP. SR K   O.022μF/25V   CERAMIC CAP.(AX) B K 150pF/50V or   CEA1JIT08151   CEAMIC CAP.(AX) S L J 150pF/50V   CCA1JIT08151   CCA1JIT08171   CCA1JIT0817				
SEMICONDUCTOR CAP. SR K	0023		0.022uF/25V or	12122200
C024         CERAMIC CAP.(AX) B K 150pF/50V OCA1JJT0B151         CERAMIC CAP.(AX) B J 150pF/50V OCA1JJT0B151         CCA1JJT0B151         CCA1JJT0B151         CCA1JJT0B151         CCA1JJT0B151         CCA1JJT0B151         CCA1JJT0B151         CCA1JJTSL150         CCA1JJT0B471         CDA1CMT0Y103         CCA1JJT0B471         CDA1CMT0Y103         CCA1JJT0B471         CCA1JJT0B471         CCA1JJT0B471         CCA1JJT0B471         CCA1JJT0B471         CCA1JJT0B471         CCA1JJT0B471         CCA1JJT0B471         CCA1JJT0B471         CCA0J473NE003         CCA1JJT0B471         CCA0J473NE003         CCA1JJT0B471         CCA0J473NE003         CCA1JJT0B471         CCA0J473NE003         CCA1JJT0B471         CCA0J473NE003         CCA1JJT0B471         CCA0J473NE003         CCA1JJT0B471         CCA1JJT0B473         CDA1CMT0Y103         CCA1JJT0B473         CDA1CMT0Y103         CCA1JJT0B473         CDA1CMT0Y103         CCA1JJT0B473         CDA1CMT0Y103         CCA1JJT0B472         CCA1JJT0B473				CDA1FKS0X223
CO51         CERAMIC CAP.(AX) B J 150pF/50V         CCA1 JJT0B151           CO52         ELECTROLYTIC CAP. 0.47μF/50V M         CCA1 JJTSL150           C053         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0/103           C055         CERAMIC CAP.(AX) B J 470pF/50V or CERAMIC CAP.(AX) B J 470pF/50V M CE0KMASDL471         CCA1 JJT0B471           C056         ELECTROLYTIC CAP. 470pF/60V or O.047F/5.5V Z         CCA0 J473NE003           C060         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JMASSL010           C062         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JMASSL010           C063         CERAMIC CAP.(AX) F Z 0.047µF/16V         CDA1CXT0F473           C253         CERAMIC CAP.(AX) F Z 0.1µF/50V         CDA1CXT0F104           C256         CERAMIC CAP.(AX) F Z 0.1µF/50V         CCA1 JZT0F104           C301         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JJMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1µF/50V         CCA1 JZT0F104           C303         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JJMASSL010           C304         ELECTROLYTIC CAP. 30pH/603V M H7         CE1 JJMASSL010           C305         CERAMIC CAP.(AX) S L J 32pF/50V         CCA1 JJTSL330           C306				OB/ (TEN)OO/LEED
CO51         CERAMIC CAP.(AX) B J 150pF/50V         CCA1 JJT0B151           CO52         ELECTROLYTIC CAP. 0.47μF/50V M         CCA1 JJTSL150           C053         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0/103           C055         CERAMIC CAP.(AX) B J 470pF/50V or CERAMIC CAP.(AX) B J 470pF/50V M CE0KMASDL471         CCA1 JJT0B471           C056         ELECTROLYTIC CAP. 470pF/60V or O.047F/5.5V Z         CCA0 J473NE003           C060         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JMASSL010           C062         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JMASSL010           C063         CERAMIC CAP.(AX) F Z 0.047µF/16V         CDA1CXT0F473           C253         CERAMIC CAP.(AX) F Z 0.1µF/50V         CDA1CXT0F104           C256         CERAMIC CAP.(AX) F Z 0.1µF/50V         CCA1 JZT0F104           C301         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JJMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1µF/50V         CCA1 JZT0F104           C303         ELECTROLYTIC CAP. 1µF/50V M H7         CE1 JJMASSL010           C304         ELECTROLYTIC CAP. 30pH/603V M H7         CE1 JJMASSL010           C305         CERAMIC CAP.(AX) S L J 32pF/50V         CCA1 JJTSL330           C306	C024		CERAMIC CAP (AX) B K 150pF/50V or	CCA1JKT0B151
C051         CERAMIC CAP.(AX) SL J 15pF/50V         CCA1JJTSL150           C052         ELECTROLYTIC CAP. 0.47μF/50V M         CE1JMASDLR47           C053         CERAMIC CAP.(AX) B K 470pF/50V Or CERAMIC CAP.(AX) B J 470pF/50V OR CEAJJKT08471         CCA1JKT08471           C055         CERAMIC CAP.(AX) B J 470pF/50V OR CEAJJKT08471         CCA1JJT08471           C056         ELECTROLYTIC CAP. 470pF/63V M CEOKMASDL471         CCA1JJT08471           C057         ELECTROLYTIC CAP. 47μF/10V M CO47μF/65V D M H7         CE1JMASSL010           C062         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C063         CERAMIC CAP.(AX) F Z 0.047μF/16V D CDA1CXT0F473         CDA1CXT0F473           C253         CERAMIC CAP.(AX) F Z 0.1μF/50V M H7         CE1JMASSL010           C255         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V M H7         CE1JMASSL010           C303         ELECTROLYTIC CAP. 330μF/63V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330μF/63V M H7         CE1JMASSL010           C305         CERAMIC CAP.(AX) S J 33pF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) S J 33pF/50V         CCA1JJTSL330				CCA1JJT0B151
C052         ELECTROLYTIC CAP. 0.47μF/50V M CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103         CE1JMASDLR47 CDA1CMT0Y103           C055         CERAMIC CAP.(AX) B K 470pF/50V or CERAMIC CAP.(AX) B J 470pF/50V OCA1JXT0B471 CCA0JJT0B471         CCA1JXT0B471 CCA1JJT0B471           C056         ELECTROLYTIC CAP. 470µF/6.3V M ELECTROLYTIC CAP. 47µF/10V M ELECTROLYTIC CAP. 1µF/50V M H7 CO62         CE1AMASDL470 CE1JMASSL010           C060         ELECTROLYTIC CAP. 1µF/50V M H7 CC253         CERAMIC CAP.(AX) F Z 0.047µF/16V CDA1CMT0Y103         CE1JMASSL010 CDA1CMT0Y103           C055         ELECTROLYTIC CAP. 1µF/50V M H7 CE1JMASSL010         CE1JMASSL010 CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1µF/50V M H7 CE1JMASSL010         CCA1JZT0F104 CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1µF/50V M H7 CE1JMASSL010         CCA1JZT0F104 CE1JMASSL010           C303         ELECTROLYTIC CAP. 30µF/6.3V M H7 CE1JMASSL010         CCA1JZT0F104 CE1JMASSL010           C304         ELECTROLYTIC CAP. 330µF/6.3V M H7 CE1JMASSL010         CCA1JZT0F104 CE1JMASSL010           C303         ELECTROLYTIC CAP. 330µF/6.3V M H7 CE1JMASSL010         CCA1JZT0F104 CE1JMASSL010           C304         ELECTROLYTIC CAP. 330µF/6.3V M H7 CE0MASSL331         CCA1JJT0B131 CE0MASSL331           C305         CERAMIC CAP.(AX) S J 33pF/50V CEAJJJTSL330         CCA1JJTSL330 CCA1JJTSL330           C310         CERAMIC CAP.(AX) S J 33pF/50V CA1JJTSL330         C	C051		, , ,	
C053         CERAMIC CAP.(AX) Y M 0.01 μF/16V CERAMIC CAP.(AX) B K 470pF/50V or CERAMIC CAP.(AX) B J 470pF/50V or CERAMIC CAP.(AX) B J 470pF/50V CCA1JJT0B471 CCA0JJT0B471 CCA0JJT0B471 CCA0JJT0B471 CCA0JJT0B471 CCA0JJT0B471 CCA0JJT0B471 CCA0JJT0B471 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA0JJT3NE003 CCA1JJT0F104 CCA0JJTSL300 CCA1JJT0F309 CCA1JJ				
CO55         CERAMIC CAP.(AX) B K 470pF/50V or CERAMIC CAP.(AX) B J 470pF/50V         CCA1JKT0B471 CCA1JJT0B471           C056         ELECTROLYTIC CAP. 470µF/6.3V M         CE0KMASDL471           C057         ELECTRIC DOUBLE LAYER CAP. 0.047F/55V Z         CE0MASDL471           C060         ELECTROLYTIC CAP. 47µF/10V M         CE1AMASDL470           C062         ELECTROLYTIC CAP. 1µF/50V M H7         CE1JMASSL010           C063         CERAMIC CAP.(AX) F Z 0.047µF/16V         CDA1CZT0F473           C253         CERAMIC CAP.(AX) F Z 0.1µF/50V         CDA1CZT0F473           C255         ELECTROLYTIC CAP. 1µF/50V M H7         CE1JMASSL010           C256         CERAMIC CAP.(AX) F Z 0.1µF/50V         CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1µF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1µF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 330µF/6.3V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330µF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) S J J 33pF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) S J J 33pF/50V         CCA1JJTSL320           C311         ELECTROLYTIC CAP. 3.3µF/50V         CCA1JJTSL320           C311         ELECTROLYTIC CAP. 3.3µF/50V				
CO56         CERAMIC CAP.(AX) B J 470pF/63V BLECTRIC DOUBLE LAYER CAP. 0.047F/5.5V Z         CC60KMASDL471 CAP.470µF/6.3V M BLECTRIC DOUBLE LAYER CAP. 0.047F/5.5V Z         CC60WASDL471 CAP.47µF/10V M CE1AMASDL470 CAOJ473NE003 0.047F/5.5V Z         CC60WASDL471 CAP.47µF/10V M CE1AMASDL470 CAP.(AX) F Z 0.047µF/16V CDA1CZT0F473 CAP.(AX) F Z 0.047µF/16V CDA1CZT0F473 CAP.(AX) F Z 0.047µF/16V CDA1CZT0F473 CAP.(AX) F Z 0.01µF/50V CDA1CZT0F473 CAP.(AX) F Z 0.1µF/50V M H7 CE1JMASSL010 CAP.(AX) F Z 0.1µF/50V CA1JZT0F104 CAP.(AX) F Z 0.1µF/50V CAP.(AX) F Z 0.1µF/50V CAJJZT0F104 CAP.(AX) S J 33pF/50V CAJJZT0F104 CAP.(AX) S J 33pF/50V CAJJZT0F104 CAP.(AX) S J 33pF/50V CAJJJTSL330 CAP.(AX) S J 30pF/50V CAJJJTSL300 CAP.(AX) S J 30pF/50V CAJJJTSL300 CAP.(AX) S J 30p				1
C056         ELECTROLYTIC CAP. 470μF/6.3V M ELECTRIC DOUBLE LAYER CAP. 0.047F/5.5V Z         CE0KMASDL471 CA0J473NE003           C060         ELECTROLYTIC CAP. 47μF/10V M ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010 CE1JMASSL010           C062         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010 CDA1CZT0F473           C063         CERAMIC CAP.(AX) Y M 0.01μF/16V ELECTROLYTIC CAP. 1μF/50V M H7         CDA1CMT0Y103 CE1JMASSL010           C255         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010 CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010 CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V ELECTROLYTIC CAP. 330μF/6.3V M H7         CE1JMASSL010 CCA1JZT0F104           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331 CCA1JZT0F104           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V ELECTROLYTIC CAP. 330μF/6.3V M H7         CCA1JZT0F104 CCA1JZT0F104           C306         CERAMIC CAP.(AX) SL J 33pF/50V CCA1JJTSL330         CCA1JZT0F104 CCA1JZT0F103           C307         CERAMIC CAP.(AX) SL J 33pF/50V CCRAMIC CAP.(AX) SL J 33pF/50V CCA1JJTSL330         CCA1JJTSL330 CCA1JJTSL330           C311         ELECTROLYTIC CAP. 3.3μF/50V CCA1JJTSL330         CCA1JJTSL330 CCA1JJTSL330           C312         CERAMIC CAP.(AX) SL J 36pF/50V CCA1JJTSL330         CCA1JJT0F104 CCA1JJTSL330           C316         CERAMIC CAP.(AX) Y M 0.01μF/16V	C000			1
CO57         ELECTRIC DOUBLE LAYER CAP. 0.047F/5.5 V Z         CA0J473NE003           C060         ELECTROLYTIC CAP. 47μF/10V M         CE1AMASDL470           C062         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C063         CERAMIC CAP.(AX) F Z 0.047μF/16V         CDA1CZT0F473           C253         CERAMIC CAP.(AX) F Z 0.047μF/16V         CDA1CMT0Y103           C255         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJT0F104           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL330           C310         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL383           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL383           C312         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL383				
0.047F/5.5V Z   ELECTROLYTIC CAP. 47μF/10V M   CE1AMASDL470				<b></b>
CO60         ELECTROLYTIC CAP. 47μF/10V M         CE1AMASDL470           C062         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C063         CERAMIC CAP.(AX) F Z 0.047μF/16V         CDA1CZT0F473           C253         CERAMIC CAP.(AX) F Z 0.047μF/16V         CDA1CMT0Y103           C255         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V M H7         CE1JMASSL010           C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 1μF/50V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C310         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL330           C311         ELECTROLYTIC CAP. 3.3μF/50V         CCA1JJTSL330           C312         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) SL J 35pF/50V         CCA1JJTSL380           C314         CERAMIC CAP.(AX) SL J 35pF/50V         CCA1JJTSL380	C057			CA0J4/3NE003
C062         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C063         CERAMIC CAP.(AX) F Z 0.047μF/16V         CDA1CZT0F473           C253         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C255         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C256         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) S L J 33pF/50V         CCA1JJTSL330           C307         CERAMIC CAP.(AX) S L J 33pF/50V         CCA1JJTSL330           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJTSL330           C311         ELECTROLYTIC CAP. 3.3μF/50V         CCA1JJTSL380           C312         CERAMIC CAP.(AX) B J 18pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) B J 18pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 18pF/50V         CCA1JJTSL330	COCO			CELAMASDI 470
C063         CERAMIC CAP.(AX) F Z 0.047μF/16V         CDA1CZT0F473           C253         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C255         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C256         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) S L J 33pF/50V         CCA1JZT0F104           C307         CERAMIC CAP.(AX) S L J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) S L J 23pF/50V         CCA1JJTSL330           C310         CERAMIC CAP.(AX) B L J 38pF/50V         CCA1JJTSL330           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL373           C312         CERAMIC CAP.(AX) B L J 18pF/50V         CCA1JJTSL330           C313         CERAMIC CAP.(AX) B L J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL38 <tr< td=""><td>1</td><td></td><td></td><td></td></tr<>	1			
C253         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103           C255         ELECTROLYTIC CAP. 1 μF/50V M H7         CE1JMASSL010           C256         CERAMIC CAP.(AX) F Z 0.1 μF/50V         CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1 μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1 μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 1 μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330 μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1 μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C310         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL380           C311         ELECTROLYTIC CAP. 3.3 μF/50V         CCA1JJTSL380           C312         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) SL J 38pF/50V         CCA1JJTSL380           C314         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103           C315         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103				
C255         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C256         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL330           C310         CERAMIC CAP.(AX) SL J 38pF/50V         CCA1JJTSL380           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 38pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) SL J 38pF/50V         CCA1JJTSL380           C314         CERAMIC CAP.(AX) S J J 38pF/50V         CCA1JJTSL380           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C316         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103				-
C256         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL330           C310         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL320           C311         ELECTROLYTIC CAP. 3.3μF/50V         CCA1JJTSL380           C312         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C314         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C316         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL20				i 1
C301         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C302         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL320           C310         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL320           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C315         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL380           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103	l .		•	1
C302         CERAMIC CAP.(AX) F Z 0.1 μF/50V         CCA1JZT0F104           C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330 μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1 μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJTSL220           C311         ELECTROLYTIC CAP. 3.3 μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL380           C314         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL380           C315         CERAMIC CAP.(AX) P M 0.01 μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE1CMASSL100           C319         ELECTROLYTIC CAP. 10μF/16V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) P M 0.01 μF/16V         CE1JMASSLR47	l .			
C303         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJTSL220           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL380           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C315         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL330           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V         CCA1JJTSL560	ľ		•	
C304         ELECTROLYTIC CAP. 330μF/6.3V M H7         CE0KMASSL331           C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJT0B391           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL180           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C315         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTD8181           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTSL560				
C305         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C306         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJT0B391           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL180           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C315         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTD8181           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C325         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104	C303			CE1JMASSL010
C306         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJT0B391           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL180           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL330           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTSL560           C325         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTSL560           C326         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103	C304			CE0KMASSL331
C306         CERAMIC CAP.(AX) Y M 0.01 μF/16V         CDA1CMT0Y103           C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJT0B391           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL180           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL330           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTSL560           C325         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTSL560           C326         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103	C305		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C307         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJTSL220           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL180           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL330           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTSL560           C325         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTSL560           C326         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JJTOF104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103	C306			CDA1CMT0Y103
C308         CERAMIC CAP.(AX) SL J 22pF/50V         CCA1JJTSL220           C310         CERAMIC CAP.(AX) B J 390pF/50V         CCA1JJT0B391           C311         ELECTROLYTIC CAP. 3.3μF/50V M H7         CE1JMASSL3R3           C312         CERAMIC CAP.(AX) SL J 18pF/50V         CCA1JJTSL180           C313         CERAMIC CAP.(AX) SL J 33pF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 180pF/50V         CCA1JJTSL330           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C325         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C326         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470	C307			CCA1JJTSL330
C310 CERAMIC CAP.(AX) B J 390pF/50V CCA1JJT0B391 C311 ELECTROLYTIC CAP. 3.3μF/50V M H7 C312 CERAMIC CAP.(AX) SL J 18pF/50V CCA1JJTSL180 C313 CERAMIC CAP.(AX) SL J 33pF/50V CCA1JJTSL330 C314 CERAMIC CAP.(AX) B J 180pF/50V CCA1JJTSL330 C315 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C317 ELECTROLYTIC CAP. 470μF/6.3V M CE0KMASDL471 C318 ELECTROLYTIC CAP. 10μF/16V M H7 C319 ELECTROLYTIC CAP. 22μF/10V M H7 C320 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C321 ELECTROLYTIC CAP. 22μF/10V M H7 C324 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C325 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JJTSL560 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JJTSL560 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JJTSL560 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C326 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C327 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C328 ELECTROLYTIC CAP. 47μF/6.3V M H7 C330 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C331 ELECTROLYTIC CAP. 1μF/50V M H7 CE1JMASSL010 C332 ELECTROLYTIC CAP. 10μF/16V M H7 CE1JMASSL010				CCA1JJTSL220
C311 C312 CERAMIC CAP. (AX) SL J 18pF/50V CCA1JJTSL180 C313 CERAMIC CAP. (AX) SL J 18pF/50V CCA1JJTSL330 C314 CERAMIC CAP. (AX) SL J 33pF/50V CCA1JJTSL330 C314 CERAMIC CAP. (AX) B J 180pF/50V CCA1JJTDB181 C315 CERAMIC CAP. (AX) Y M 0.01μF/16V CDA1CMT0Y103 C317 ELECTROLYTIC CAP. 470μF/6.3V M CE0KMASDL471 C318 ELECTROLYTIC CAP. 10μF/16V M H7 CE1CMASSL100 C319 ELECTROLYTIC CAP. 22μF/10V M H7 CE1CMASSL100 C320 CERAMIC CAP. (AX) Y M 0.01μF/16V C321 ELECTROLYTIC CAP. 0.47μF/50V M H7 C324 CERAMIC CAP. (AX) F Z 0.1μF/50V CCA1JJTSL560 CERAMIC CAP. (AX) Y M 0.01μF/16V CDA1CMT0Y103 C328 ELECTROLYTIC CAP. 47μF/6.3V M H7 CE0KMASSL470 CERAMIC CAP. (AX) Y M 0.01μF/16V CDA1CMT0Y103 C331 ELECTROLYTIC CAP. 1μF/50V M H7 CE1JMASSL010 C332 ELECTROLYTIC CAP. 10μF/16V M H7 CE1JMASSL100				CCA1.IJT0B391
C312         CERAMIC CAP.(AX) SL J 18ρF/50V         CCA1JJTSL180           C313         CERAMIC CAP.(AX) SL J 33ρF/50V         CCA1JJTSL330           C314         CERAMIC CAP.(AX) B J 180ρF/50V         CCA1JJT0B181           C315         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C325         CERAMIC CAP.(AX) S L J 56pF/50V         CCA1JZT0F104           C326         CERAMIC CAP.(AX) Y M 0.01μF/16V         CA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1JMASSL010 <td></td> <td></td> <td>` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '</td> <td></td>			` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
C313 CERAMIC CAP.(AX) SL J 33pF/50V CCA1JJTSL330 C314 CERAMIC CAP.(AX) B J 180pF/50V CCA1JJT0B181 C315 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C317 ELECTROLYTIC CAP. 470μF/6.3V M CE0KMASDL471 C318 ELECTROLYTIC CAP. 10μF/16V M H7 CE1CMASSL100 C319 ELECTROLYTIC CAP. 22μF/10V M H7 CE1AMASSL220 CERAMIC CAP.(AX) Y M 0.01μF/16V C320 CERAMIC CAP.(AX) Y M 0.01μF/16V C321 ELECTROLYTIC CAP. 0.47μF/50V M H7 C324 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C325 CERAMIC CAP.(AX) SL J 56pF/50V CCA1JJTSL560 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C327 CERAMIC CAP.(AX) Y M 0.01μF/16V C328 ELECTROLYTIC CAP. 47μF/6.3V M H7 C330 CERAMIC CAP.(AX) Y M 0.01μF/16V C331 ELECTROLYTIC CAP. 1μF/50V M H7 CE1JMASSL010 C332 ELECTROLYTIC CAP. 10μF/16V M H7 CE1JMASSL100				
C314 CERAMIC CAP.(AX) B J 180pF/50V CCA1JJT0B181 C315 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C317 ELECTROLYTIC CAP. 470μF/6.3V M CE0KMASDL471 C318 ELECTROLYTIC CAP. 10μF/16V M H7 C319 ELECTROLYTIC CAP. 22μF/10V M H7 C320 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C321 ELECTROLYTIC CAP. 0.47μF/50V M H7 C324 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C325 CERAMIC CAP.(AX) SL J 56pF/50V CCA1JZT0F104 C326 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C327 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C327 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C328 ELECTROLYTIC CAP. 47μF/6.3V M H7 C330 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C331 ELECTROLYTIC CAP. 1μF/50V M H7 CE1JMASSL010 C332 ELECTROLYTIC CAP. 10μF/16V M H7 CE1JMASSL100				
C315 CERAMIC CAP.(AX) Y M 0.01 μF/16V CDA1CMT0Y103 C317 ELECTROLYTIC CAP. 470 μF/16V M H7 C318 ELECTROLYTIC CAP. 10 μF/16V M H7 CE1CMASSL100 C320 CERAMIC CAP.(AX) Y M 0.01 μF/16V C321 ELECTROLYTIC CAP. 22 μF/10V M H7 CE1AMASSL220 CDA1CMT0Y103 C321 ELECTROLYTIC CAP. 0.47 μF/50V M H7 C324 CERAMIC CAP.(AX) F Z 0.1 μF/50V CCA1JZT0F104 C325 CERAMIC CAP.(AX) S L J 56 pF/50V CCA1JZT0F104 C326 CERAMIC CAP.(AX) F Z 0.1 μF/50V CCA1JZT0F104 C327 CERAMIC CAP.(AX) F Z 0.1 μF/50V CCA1JZT0F104 C327 CERAMIC CAP.(AX) Y M 0.01 μF/16V C328 ELECTROLYTIC CAP. 47 μF/6.3V M H7 C330 CERAMIC CAP.(AX) Y M 0.01 μF/16V CAP.(AX) F Z 0.1 μF/50V CDA1CMT0Y103 C331 ELECTROLYTIC CAP. 1 μF/50V M H7 CE1JMASSL010 C332 ELECTROLYTIC CAP. 10 μF/16V M H7 CE1CMASSL100				
C317         ELECTROLYTIC CAP. 470μF/6.3V M         CE0KMASDL471           C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C325         CERAMIC CAP.(AX) S J 56pF/50V         CCA1JJTSL560           C326         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1JMASSL100			, , ,	
C318         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100           C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C325         CERAMIC CAP.(AX) S L J 56pF/50V         CCA1JZT0F104           C326         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1JMASSL100				
C319         ELECTROLYTIC CAP. 22μF/10V M H7         CE1AMASSL220           C320         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C325         CERAMIC CAP.(AX) SL J 566P/50V         CCA1JJTSL560           C326         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1JMASSL100				1
C320 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C321 ELECTROLYTIC CAP. 0.47μF/50V M H7 C324 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C325 CERAMIC CAP.(AX) S L J 56pF/50V CCA1JJTSL560 C326 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C327 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C328 ELECTROLYTIC CAP. 47μF/6.3V M H7 C330 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C331 ELECTROLYTIC CAP. 1μF/50V M H7 C332 ELECTROLYTIC CAP. 10μF/16V M H7 CE1JMASSL010 C332 ELECTROLYTIC CAP. 10μF/16V M H7				
C321         ELECTROLYTIC CAP. 0.47μF/50V M H7         CE1JMASSLR47           C324         CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104         CCA1JZT0F104           C325         CERAMIC CAP.(AX) SL J 56pF/50V CCA1JJTSL560         CCA1JJTSL560           C326         CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104         CCA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103         CE0KMASSL470           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100				
C324 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JZT0F104 C325 CERAMIC CAP.(AX) SL J 56pF/50V CCA1JJTSL560 C326 CERAMIC CAP.(AX) F Z 0.1μF/50V CCA1JJTSL560 C327 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C328 ELECTROLYTIC CAP. 47μF/6.3V M H7 C330 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C331 ELECTROLYTIC CAP. 1μF/50V M H7 C332 ELECTROLYTIC CAP. 10μF/16V M H7 CE1JMASSL010 C332			, , ,	
C325         CERAMIC CAP.(AX) SL J 56pF/50V         CCA1JJTSL560           C326         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100				-
C326         CERAMIC CAP.(AX) F Z 0.1μF/50V         CCA1JZT0F104           C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100	C324			CCA1JZT0F104
C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100	C325		CERAMIC CAP.(AX) SL J 56pF/50V	CCA1JJTSL560
C327         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100	C326			CCA1JZT0F104
C328         ELECTROLYTIC CAP. 47μF/6.3V M H7         CE0KMASSL470           C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100	1			CDA1CMT0Y103
C330         CERAMIC CAP.(AX) Y M 0.01μF/16V         CDA1CMT0Y103           C331         ELECTROLYTIC CAP. 1μF/50V M H7         CE1JMASSL010           C332         ELECTROLYTIC CAP. 10μF/16V M H7         CE1CMASSL100		l		· · · · · · · · · · · · · · · · · · ·
C331 ELECTROLYTIC CAP. 1µF/50V M H7 CE1JMASSL010 C332 ELECTROLYTIC CAP. 10µF/16V M H7 CE1CMASSL100			·	
C332 ELECTROLYTIC CAP. 10µF/16V M H7 CE1CMASSL100		-		-
	C333			CETJMASSL010
C333   ELECTROLYTIC CAP. 1µF/50V M H7   CE1JMASSL010	WW .		LLLOTROLITIO OAP. 1με/30V WI Π/	OF ISIMVOSTOID

5-7-31-	5.51 -	Desembles	Part No.
Ref. No.	Mark	Description	
C334		CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103
C335		CERAMIC CAP.(AX) Y M 0.01μF/16V	CDA1CMT0Y103
C336		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C337		CERAMIC CAP. F Z 0.01µF/50V or	CCD1JZS0F103
		CERAMIC CAP. YV Z 0.01µF/50V	CCD1JZSYV103
C338		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMASSL470
C339		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C340		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C341		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C342		CERAMIC CAP.(AX) F Z 0.1μF/50V	CCA1JZT0F104
C344		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C345	!	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
			CCD1JZS0F223
C346	j	CERAMIC CAP. F Z 0.022µF/50V or	
		CERAMIC CAP. YV Z 0.022μF/50V	CCD1JZSYV223
C348		ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL010
C349		CERAMIC CAP.(AX) F Z 0.022µF/25V	CDA1EZT0F223
C351		CERAMIC CAP.(AX) F Z 0.047µF/16V	CDA1CZT0F473
C352		CERAMIC CAP. F Z 0.022µF/50V or	CCD1JZS0F223
		CERAMIC CAP. YV Z 0.022µF/50V	CCD1JZSYV223
C353		ELECTROLYTIC CAP. 47µF/6.3V M	CE0KMASDL470
C354		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C355		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
i .			CCA1JJTSL100
C357	A,B	CERAMIC CAP.(AX) SL J 10pF/50V	1
C359		CERAMIC CAP.(AX) SL J 33pF/50V	CCA1JJTSL330
C380	A,B	ELECTROLYTIC CAP. 22µF/10V M	CE1AMASDL220
C381	C,D	CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
	C,D	CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
C401		ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMASSL4R7
C403		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C404	İ	CERAMIC CAP.(AX) F Z 0.1 µF/50V	CCA1JZT0F104
C405		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
		CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
C406		ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMASSL470
C407		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMASSL221
C407 C408		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMASSL221
		CERAMIC CAP. B K 470pF/100V or	CCD2AKP0B471
C409	-	CERAMIC CAP. B K 470pF/100V 0	CCD2JKS0B471
C410		FILM CAP.(P) 0.018μF/100V J TV or	CMB2AJS00183
i		FILM CAP.(P) 0.018µF/100V J or	CMA2AJS00183
		FILM CAP.(P) 0.018μF/100V J	1255183S
C411	1	CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C412		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C413		CERAMIC CAP.(AX) X K 1200pF/16V	CDA1CKT0X122
C414		CERAMIC CAP.(AX) B K 820pF/50V or	CDA1JKT0B821
-		CERAMIC CAP.(AX) B J 820pF/50V	CDA1JJT0B821
C415	1	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMASSL4R7
C416	1	CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C416	1	CERAMIC CAP.(AX) B K 220pF/50V or	CCA1JKT0B221
L C417	1	CERAMIC CAP.(AX) B X 220pF/50V	CCA1JKT0B221
0.00			CE1AMASDL220
C420		ELECTROLYTIC CAP. 22µF/10V M	· · · · · · · · · · · · · · · · · · ·
C421	1	ELECTROLYTIC CAP. 33μF/6.3V M	CE0KMASDL330
C422		CERAMIC CAP.(AX) X K 4700pF/16V	CDA1CKT0X472
C451	1	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASSL100
C452	1	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMASSL010
C453		ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMASSL220
C454		ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMASSL4R7
C455	1	SEMICONDUCTOR CAP. SR K	12Y2103S
	1	0.01µF/25V or	
	j	SEMICONDUCTOR CAP. SR K	CDA1EKS0X103
	1	0.01µF/25V	
C456		ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMASSL220
C457		ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMASSL220
C458	1	CERAMIC CAP.(AX) X K 4700pF/16V	CDA1CKT0X472
C456 C459		CERAMIC CAP.(AX) X K 3300pF/16V	CDA1CKT0X332
		CERAMIC CAP.(AX) B K 100pF/50V or	CCA1JKT0B101
C461			CCA1JJT0B101
L	L	CERAMIC CAP.(AX) B J 100pF/50V	COMMUNICATION

Ref. No.	Mark	Description	Part No.
C462	WIGHT	CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C463		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMASSL010
C464		ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMASSL4R7
C465		CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103
1		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMASSL470
C466			· ·
C467		CERAMIC CAP.(AX) X K 3300pF/16V	CDA1CKT0X332
C468		CERAMIC CAP.(AX) X K 4700pF/16V	CDA1CKT0X472
C469		ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMASSL220
C470		SEMICONDUCTOR CAP. SR K	12Y2103S
		SEMICONDUCTOR CAP. SR K	CDA1EKS0X103
C471	1	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMASSL4R7
C472		ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMASSL220
C473		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMASSL010
C474	1	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMASSL470
C475		ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMASSL100
C476		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C477		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C477		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C501		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
0301		CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
C502		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1J5T0B102
U302		CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
C508		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
C306		CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
C509		CERAMIC CAP.(AX) X K 3300pF/16V	CDA1GKT0X332
C510		CERAMIC CAP.(AX) B K 220pF/50V or	CCA1JKT0B221
10310		CERAMIC CAP.(AX) B J 220pF/50V	CCA1JJT0B221
C511		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
10011		CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
C512		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100
C512		ELECTROLYTIC CAP. 10μ1/10V M  ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C513		CERAMIC CAP.(AX) B K 100pF/50V or	CCA1JKT0B101
G514		CERAMIC CAP.(AX) B J 100pF/50V	CCAIJITOB101
C515		CERAMIC CAP.(AX) B K 330pF/50V or	CCA1JKT0B331
0313		CERAMIC CAP.(AX) B J 330pF/50V	CCA1JJT0B331
C520		CERAMIC CAP.(AX) F Z 0.022µF/25V	CDA1EZT0F223
C521		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C522		CERAMIC CAP.(AX) X K 3300pF/16V	CDA1CKT0X332
C523		CERAMIC CAP.(AX) X K 4700pF/16V	CDA1CKT0X472
C524		CERAMIC CAP.(AX) SL J 27pF/50V	CCA1JJTSL270
C525		CERAMIC CAP.(AX) SL J 27pF/50V	CCA1JJTSL270
C525		ELECTROLYTIC CAP. 100µF/6.3V M H7	CEOKMASSL101
C527		CERAMIC CAP.(AX) F Z 0.022µF/25V	CDA1EZT0F223
C529		ELECTROLYTIC CAP. 330µF/6.3V M H7	CEOKMASSL331
C530		ELECTROLYTIC CAP. 22μF/10V M	CE1AMASDL220
C531		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C534		CERAMIC CAP.(AX) SL J 10pF/50V	CCA1JJTSL100
C536		CERAMIC CAP.(AX) X K 1500pF/16V	CDA1CKT0X152
C537		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100
C538		ELECTROLYTIC CAP. 33µF/6.3V M H7	CEOKMASSL330
C539		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C541		CERAMIC CAP.(AX) F Z 0.047µF/16V	CDA1CZT0F473
C542		CERAMIC CAP.(AX) SL J 10pF/50V	CCA1JJTSL100
C548		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C549		CERAMIC CAP.(AX) F Z 0.022µF/25V	CDA1EZT0F223
C550		CERAMIC CAP.(AX) F Z 0.1 μF/50V	CCA1JZT0F104
C551		CERAMIC CAP.(AX) B K 330pF/50V or	CCA1JKT0B331
"""		CERAMIC CAP.(AX) B J 330pF/50V	CCA1JJ T0B331
C554		CERAMIC CAP. F Z 0.01 µF/50V or	CCD1JZS0F103
		CERAMIC CAP. YV Z 0.01µF/50V	CCDIJZSYV103
C558		CERAMIC CAP. (AX) X K 5600pF/16V	CDA1C KT0X562
C602		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C701		CERAMIC CAP.(AX) F Z 0.047µF/16V	CDA10.ZT0F473
C702		CERAMIC CAP.(AX) F Z 0.047μF/16V	CDA1CZT0F473
10,02	Ц	OE1 0 100 O/11 . (1/1/) 1 2 0.047 pt / 104	1 257.102.31.110

Ref. No.	Mark	Description	Part No.
C703	AIDIN	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C704		CERAMIC CAP. F Z 0.01 µF/50V or	CCD1JZS0F103
0101		CERAMIC CAP. YV Z 0.01µF/50V	CCD1JZSYV103
C710		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C711		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
OI II		CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
C713		CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103
C721		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103
C724		ELECTROLYTIC CAP. 470µF/10V M	CE1AMASDL471
C725		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C851	C,D	CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C854	C,D	CERAMIC CAP.(AX) SL J 15pF/50V	CCA1JJTSL150
C855	C,D	CERAMIC CAP.(AX) SL J 15pF/50V	CCA1JJTSL150
C856	C,D	CERAMIC CAP.(AX) B K 220pF/50V or	CCA1JKT0B221
0000	C,D	CERAMIC CAP.(AX) B J 220pF/50V	CCA1JJT0B221
C857	C,D	CERAMIC CAP.(AX) B K 220pF/50V or	CCA1JKT0B221
0007	C,D	CERAMIC CAP.(AX) B J 220pF/50V	CCA1JJT0B221
C858	C,D	CERAMIC CAP.(AX) B K 220pF/50V or	CCA1JKT0B221
O000	C,D	CERAMIC CAP.(AX) B J 220pF/50V	CCA1JJT0B221
COEO	1 '	ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASDL101
C859	C,D	CERAMIC CAP.(AX) SL J 22pF/50V	CCA1JJTSL220
C860	C,D	CERAMIC CAP.(AX) SL J 22pF/50V	CCA1JJTSL220 CCA1JJTSL560
C862	C,D	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C863	C,D		CCA1JKT0B101
R583		CERAMIC CAP.(AX) B K 100pF/50V or	
	l	CERAMIC CAP.(AX) B J 100pF/50V	CCA1JJT0B101
CN251	T .	FFC CONNECTOR BASE, TOP 9P	JC04J09ER002
CN501		CABLE CONNECTOR, 2P	JCTMC02TG001
CN502		FFC CONNECTOR BASE, TOP 17P	JC04J17ER002
CN503		CONNECTOR, 8P	J3TMA08TG002
CN505		STRAIGHT PIN HEADER, 3P	J391C03ER001
CN751		FFC CONNECTOR BASE, TOP 19P	JC04J19ER002
011707		DIODES	
D001		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	ND8Z001N4005
D002		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	ND8Z001N4005
D003		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	ND8Z001N4005
D004		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
•		RECTIFIER DIODE 1N4005	ND8Z001N4005
D005		RECTIFIER DIODE BA159 or	NDQZ000BA159
		RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D006		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D007		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D011		RECTIFIER DIODE BA159 or	NDQZ000BA159
		RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D012		FAST RECOVERY DIODE ERB32-01	QDPZ0ERB3201
D013		RECTIFIER DIODE BA159 or	NDQZ000BA159
		RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D014		SCHOTTKY BARRIER DIODE RK33 or	QDPZ0000RK33
		SCHOTTKY BARRIER DIODE RK34	QDPZ0000RK34
DO15		FAST RECOVERY DIODE ERA18-04	QDPZ0ERA1804
D017		ZENER DIODE MTZJT-778.2A	QDTA0MTZJ8R2
D01)		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
500		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D052		ZENER DIODE MTZJT-779.1C	QDTC0MTZJ9R1
1		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
D053	1	SWITCHING DIODE 155153(1-77) or	A1SS254T77**
i		1 AVVILUDING UIUDE 100204 1º/7 Uf	A 1 U U Z U 4 1 / /
			NDT7001NA1AR
D <b>0</b> 54		SWITCHING DIODE 1N4148 ZENER DIODE MTZJT-776.2B	NDTZ001N4148 QDTB0MTZJ6R2

Ref. No.	Mark	Description	Part No.
D055	William	ZENER DIODE MTZJT-779.1C	QDTC0MTZJ9R1
D056		ZENER DIODE MTZJT-7730A	QDTA00MTZJ30
D057		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	ND8Z001N4005
D059		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D301		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D451		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D452		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D503		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77** NDTZ001N4148
DCO4		SWITCHING DIODE 1N4148 SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
D504		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 133254 1-77 01	NDTZ001N4148
D505		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
10000		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D506		SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
D551		LED SIR-56ST3F-M or	QPQM0S1 R56ST
		LED SIR-56ST3F-N	QPQN0\$1 R56ST
D701		ZENER DIODE MTZJT-7733D	QDTD00MTZJ33
D756		SWITCHING DIODE 1SS133(T-77) or	QDTZ001 SS133
		SWITCHING DIODE 1SS254 T-77 or	A1SS254T77**
		SWITCHING DIODE 1N4148	NDTZ001N4148
IC001 🛧	1	ICS PHOTOCOUPLER LTV817C or	NPEC00LTV817
<u>A</u>		PHOTOCOUPLER LTV817A or	NPEA00LTV817
<u>A</u>		PHOTOCOUPLER LTV817B or	NPEB00LTV817
$\triangle$		PHOTOCOUPLER PS2561-1M or	QPEM0PS25611
$\triangle$		PHOTOCOUPLER PS2561-1D or	QPED0PS25611
$\overline{\mathbb{A}}$		PHOTOCOUPLER PS2561-1H or	QPEH0PS25611
$\triangle$		PHOTOCOUPLER PS2561-1W	QPEW0PS25611
IC002		IC KA431Z or	NSZLA0ZSM001
	İ	IC AN1431T-(NSC) or	QSBLA0ZMS001
		IC KIA431	NSZLA0ZJY001
IC301	ŀ	IC:Y/C/A LA71590M	QSBLAGSSY076
IC451	0.5	IC:HIFI LA72638M	QSMLAIRSY033 QSMQAIRSN090
IC501	C,D	MICROCONTROLLER 8BIT CXP88160- 138Q	
IC501	A,B	MICROCONTROLLER 8BIT CXP88140A-109Q or	QSMQB)RSN088
	A,B	MICROCONTROLLER 8BIT CXP88140A-112Q or	QSMQ0)FISN088
	A,B	MICROCONTROLLER 8BIT CXP88140A-113Q	QSMQD)FSN088
IC503		IC:OP-AMP. LM324N or	NSBLAGSS007
		IC:OP AMP NJM324D or	QSBLA(SJR039
[		IC:OP-AMP. KIA324P DIP-14	NSBLA0SJY002
IC504		IC TA7291S	14LW342
IC505	A,B	IC:MEMORY AT24C02N-10SC or	NSMMA(SAZ012
	A,B	IC(EEPROM) M24C02-MN6 or	NSMMADSSS028
	A,B	IC:MEMORY BR24C02F	QSMMA(SRM003
IC505	C,D	IC:MEMORY BR24C04F or	QSMMA)SRM004
	C,D	IC:MEMORY AT24C04N-10SC or	NSMMA(SAZ013
1005	C,D	EEPROM IC M24C04-MN6	NSMMA(SSS029
IC851	C,D	IC, ON SCREEN LC74783-9173 COILS	QSMGAISSY012
L001 🛧	Γ	LINE FILTER 1MH LF-4Z-E102	LLBG000K Q010
L002 A		LINE FILTER 51MH UU10.5-51MH or	LLBG00F 8003
<u></u>			

Ref. No.	Mark	Description	Part No.
<b>A</b>	Widin.	LINE FILTER 51MH 53230	LLBG00ZKT002
L003		CHOKE COIL 22µH K or	LLBD00PKV006
-1100		LEAD INDUCTOR 22µH K or	LLARKMPKV220
		LEAD INDUCTOR 22µH K	LLARKMUTU220
L004		CHOKE COIL 22µH K or	LLBD00PKV006
		LEAD INDUCTOR 22µH K or	LLARKMPKV220
		LEAD INDUCTOR 22µH K	LLARKMUTU220
L005	:	BEAD CORE B16 RH 3.5X10X1.3 or	XL03010XM001
		BEAD CORE HF70BB3.5X10X1.3	XL03010TE001
L006		BEAD CORE B16 RH 3.5X10X1.3 or	XL03010XM001
		BEAD CORE HF70BB3.5X10X1.3	XL03010TE001
L007		BEAD CORE B16 RH 3.5X10X1.3 or	XL03010XM001
		BEAD CORE HF70BB3.5X10X1.3	XL03010TE001
L008		BEAD CORE B16 RH 3.5X10X1.3 or	XL03010XM001
		BEAD CORE HF70BB3.5X10X1.3	XL03010TE001
L011	1	BEAD CORE B16 RH 3.5X10X1.3 or	XL03010XM001
2011		BEAD CORE HF70BB3.5X10X1.3	XL03010TE001
L251		PCB JUMPER D0.6-P5.0	JW5.0T
L302		INDUCTOR 47µH K 26T or	LLAXKATTU470
2002		INDUCTOR 47µH K 26T	LLAXKDTKA470
L303		INDUCTOR 39µH K 26T or	LLAXKATTU390
L000	1	INDUCTOR 39µH K 26T	LLAXKDTKA390
L304		INDUCTOR 39µH K 26T or	LLAXKATTU121
L004		INDUCTOR 120µH K 26T	LLAXKDTKA121
L306		INDUCTOR 47µH K 5FT or	LLARKBSTU470
L000		INDUCTOR 47µH K 5FT	LLARKDSKA470
L312		INDUCTOR 10µH K 26T or	LLAXKATTU100
LUIZ		INDUCTOR 10µH K 26T	LLAXKDTKA100
L401		CHOKE COIL 47µH K or	LLBD00PKV005
L401		CHOKE COIL 47µH K or	LLBD00PKV003
L402		INDUCTOR 27µH K 26T or	LLAXKATTU270
L402		INDUCTOR 27 µH K 26T	LLAXKATTO270
L501		CHOKE COIL 47µH K or	LLBD00PKV005
LJUI		CHOKE COIL 47µH K	LLBD00PKV003
L502	-	CHOKE COIL 47µH K or	LLBD00PKV004
£302		CHOKE COIL 47µH K	LLBD00PKV004
L504		PCB JUMPER D0.6-P10.0	JW10.0T
L701	A,B	PCB JUMPER D0.6-P5.0	JW5.0T
L701	C,D	INDUCTOR 10µH K 5FT or	LLARKBSTU100
F101	C,D	INDUCTOR 10µH K 5FT	LLARKDSKA100
L703	0,0	CHOKE COIL 47µH K	LLBD00PKV005
L703	1	CHOKE COIL 47 µH K	LLBD00PKV004
L703		CHOKE COIL 47 HT K	LLBD00PKV004
L704 .		CHOKE COIL 47 LLH K	LLBD00PKV004
L851 ·	C,D	INDUCTOR 27µH K 26T or	LLAXKATTU270
L001 ·	C,D	INDUCTOR 27µH K 26T	LLAXKDTKA270
L853	C,D	INDUCTOR 22µH K 26T or	LLAXKATTU220
LUJO	C,D	INDUCTOR 22µH K 26T or	LLAXKDTKA220
1014	0,0	INDUCTOR 8.2µH K 26T or	LLAXKATTU8R2
J214		INDUCTOR 8.2µH K 26T	LLAXKDTKA8R2
	L	TRANSISTORS	LLANNUTRAORZ
Q001 🛧		TRANSISTOR 2SC3576	QQSZ02SC3576
Q001 Z.S.		TRANSISTOR 2SC4517	QQPZ02SC4517
Q002 Z:S	ĺ	TRANSISTOR 2304317 TRANSISTOR 2SD734F-NP-AQ or	QQSF002SD734
Q001	}	TRANSISTOR 2SD734G-NP-AQ	QQSG002SD734
Q052		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
G1002		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
			QQSY02SC1815
		TRANSISTOR 2SC1815-Y(TPE2) or	
		TRANSISTOR 2SC1815-GR(TPE2) or	QQS102SC1815
		TRANSISTOR 2SC1740(Q) or	C1740QZ
		TRANSISTOR 2SC1740(R) or	C1740RZ
		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
0050		TRANSISTOR KTC3199(GR)	NQS10KTC3199
Q053		RES. BUILT-IN TRANSISTOR 2SA1654	QQSZ02SA1654

Ref. No.	Mark	Description	Part No.
Q054	····ui	RES. BUILT-IN TRANSISTOR 2SA1346	A1346Z
		or	<del></del>
		RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
		RES. BUILT-IN TRANSISTOR DTA124ES	A124ESZ
Q055		TRANSISTOR 2SD734F-NP-AQ or	QQSF002SD734
		TRANSISTOR 2SD734G-NP-AQ	QQSG002SD734
Q056		TRANSISTOR 2SA1015-GR(TPE2) or	QQS102SA1015
		TRANSISTOR 2SA933AS(S) or	QQSS2SA933AS
		TRANSISTOR KTA1266(GR)	NQS40KTA1266
Q057	i	RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
		RES. BUILT-IN TRANSISTOR KRC103M	NQSZ0KRC103M
Q059		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120(Y)	QQSY02SC2120
Q302		TRANSISTOR KTC3193(Y) or	NQSY0KTC3193
		TRANSISTOR 2SC2058(Q)	QQSQ02SC2058
Q303		TRANSISTOR KTC3193(Y) or	NQSY0KTC3193
		TRANSISTOR 2SC2058(Q)	QQSQ02SC2058
Q304		TRANSISTOR KTC3193(Y) or	NQSY0KTC3193
	1	TRANSISTOR 2SC2058(Q)	QQSQ02SC2058
Q305		TRANSISTOR 2SA1015-GR(TPE2) or	QQS102SA1015
		TRANSISTOR 2SA933AS(S) or	QQSS2SA933AS
		TRANSISTOR KTA1266(GR)	NQS40KTA1266
Q306		RES. BUILT-IN TRANSISTOR KRC106M- AT or	NQSZ0KRC106M
		RES. BUILT-IN TRANSISTOR KSR1214 or	NQSZ0KSR1214
		RES. BUILT-IN TRANSISTOR 2SC4133	QQSZ02SC4133
Q307		TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
		TRANSISTOR 2SA1175(H) or	QQSH02SA1175
		TRANSISTOR 2SA1175(F) or	QQSF02SA1175
j		TRANSISTOR 2SA933AS(Q) or	QQSQ2SA933AS
		TRANSISTOR 2SA933AS(R) or	QQSR2SA933AS
		TRANSISTOR KTA1267(Y) or	NQSYOKTA1267
		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
		TRANSISTOR 2SA608(E) or	QQSESA608SPA
		TRANSISTOR 2SA608(F)	QQSFSA608SPA
Q401		TRANSISTOR 2SA1015-GR(TPE2) or	QQS102SA1015
		TRANSISTOR 2SA933AS(S) or	QQSS2SA933AS
		TRANSISTOR KTA1266(GR)	NQS4OKTA1266
Q402	,	TRANSISTOR KTC3203(Y) or	NQSYOKTC3203
	İ	TRANSISTOR 2SC2120(Y)	QQSYO2SC2120
Q403		RES. BUILT-IN TRANSISTOR 2SA1346 or	A1346Z
		RES. BUILT-IN TRANSISTOR KRA103M or RES. BUILT-IN TRANSISTOR DTA124ES	NQSZOKRA103M A124ESZ
Q404		TRANSISTOR 2SC3331(T) or	QSC3331TNPAA
🗸		TRANSISTOR 2SC3331(U)	QSC3331UNPAA
Q405		TRANSISTOR 2SC3331(T) or	QSC3331TNPAA
Q400		TRANSISTOR 2SC3331(U)	QSC3331UNPAA
Q451	1	TRANSISTOR ZSC3331(U) TRANSISTOR KTC3203(Y) or	NQSYOKTC3203
(40)		TRANSISTOR ATC3203(1) of	QQSYO2SC2120
Q501		TRANSISTOR 2SA1015-GR(TPE2) or	QQS1D2SC2120 QQS1D2SA1015
301		TRANSISTOR 2SA933AS(S) or	QQSS2SA933AS
		TRANSISTOR 25A933A5(5) or TRANSISTOR KTA1266(GR)	NQS4D KTA1266
0502		, ,	
Q503		PHOTO TRANSISTOR ST-319R2-B	QP480 ST319R2
Q504		PHOTO TRANSISTOR ST-319R2-B	QP480 \$T319R2
Q505		TRANSISTOR 2SC2785(K) or	QQSKO2SC2785
		TRANSISTOR 2SC1815-BL(TPE2) or	QQS202SC1815
0500		TRANSISTOR KTC3199(BL)	NQS50 KTC3199
Q506		RES. BUILT-IN TRANSISTOR DTC124ES or	C124ESZ
		RES. BUILT-IN TRANSISTOR KRC103M	NOSZD KRC103M
Q508		RES. BUILT-IN TRANSISTOR 2SA1346 or	A1346Z

Ref. No.	Mark	Description	Part No.
nei, No.	IVIAIN	RES. BUILT-IN TRANSISTOR KRA103M	NQSZ0KRA103M
		or	
		RES. BUILT-IN TRANSISTOR DTA124ES	A124ESZ
Q509		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120(Y)	QQSY02SC2120
Q514		PHOTO TRANSISTOR ST-319R2-B	QP4B0ST319R2
Q851	C,D	TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
4.5-1	C.D	TRANSISTOR 2SA1175(H) or	QQSH02SA1175
	C,D	TRANSISTOR 2SA1175(F) or	QQSF02SA1175
	C.D	TRANSISTOR 2SA933AS(Q) or	QQSQ2SA933AS
	C,D	TRANSISTOR 2SA933AS(R) or	QQSR2SA933AS
	C.D	TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
	C,D	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	C,D	TRANSISTOR 2SA608(E) or	QQSESA608SPA
	C,D	TRANSISTOR 2SA608(F)	QQSFSA608SPA
	[0,0	RESISTORS	1
R002 🛧		FIXED METAL OXIDE FILM RES. 2W J	RN02823KE009
		82k Ω or	
₾		FIXED METAL OXIDE FILM RES. 2W J 82k $\Omega$	RN02823HH012
R003		CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R004		CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R005		CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R006		CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R007	İ	FIXED METAL OXIDE FILM RES. 1W J	RN01151KE009
1100/		150 Ω or	
		FIXED METAL OXIDE FILM RES. 1W J 150 $\Omega$	RN01151HH007
R011		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R012		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R014		FIXED METAL OXIDE FILM RES. 1W J	RN011R5KE009
		1.5 $\Omega$ or   FIXED METAL OXIDE FILM RES. 1W J   1.5 $\Omega$	RN011R5HH007
R016		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R017		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R022		CARBON RES. 1/6W J 470 Ω or	RCX6JATZ0471
		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R023		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R024		CARBON RES. 1/4W G 2.2k Ω or	RCX4GATZ0222
		CARBON RES. 1/6W G 2.2k Ω	RCX6GATZ0222
R025		CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R026		CARBON RES. 1/4W G 2k Ω or	RCX4GATZ0202
1		CARBON RES. 1/6W G 2k Ω	RCX6GATZ0202
R027		CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010
R051		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R052		CARBON RES. 1/4W J 5.6k $\Omega$	RCX4JATZ0562
R053		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R054		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R055		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R056		CARBON RES. 1/4W J 68k Ω	RCX4JATZ0683
R057		CARBON RES. 1/6W J 560 Ω or	RCX6JATZ0561
11007		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R058		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
"""		CARBON RES. 1/4W J 10k $\Omega$	RCX4JATZ0103
R059		CARBON RES. 1/6W J 100k $\Omega$ or	RCX6JATZ0104
1		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R060		CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
11000		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R061		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
'''		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R062		CARBON RES. 1/4W 3 100K 32 CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
11002		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R063		CARBON RES. 1/6W J 56 Ω or	RCX6JATZ0560
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Det No	Mark	Description	Part No.
Ref. No.	Mark	Description CARBON RES, 1/4W J 56 Ω	RCX4JATZ0560
R067		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
11007		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R253		CARBON RES. 1/6W J 12k Ω or	RCX6JATZ0123
		CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R256		CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R257		CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
		CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R258		CARBON RES. 1/6W J 6.8k Ω or	RCX6JATZ0682
		CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R259		CARBON RES. 1/6W J 6.8k Ω or	RCX6JATZ0682
		CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682 RCX6JATZ0682
R260		CARBON RES. 1/6W J 6.8k Ω or	RCX4JATZ0682
D061		CARBON RES. 1/4W J 6.8k $\Omega$ CARBON RES. 1/6W J 6.8k $\Omega$ or	RCX6JATZ0682
R261		CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R302		CARBON RES. 1/6W J 15k Ω or	RCX6JATZ0153
11002		CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R303		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
	1	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R304		CARBON RES. 1/6W J 18k Ω or	RCX6JATZ0183
		CARBON RES. 1/4W J 18k Ω	RCX4JATZ0183
R305		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
	·	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R307		CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R308		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R309	1	CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
D040		CARBON RES. 1/4W J 820 $\Omega$ CARBON RES. 1/6W J 820 $\Omega$ or	RCX4JATZ0821 RCX6JATZ0821
R310		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R311		CARBON RES. 1/6W J 390 Ω or	RCX6JATZ0391
ווטח		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R312		CARBON RES. 1/6W J 390 Ω or	RCX6JATZ0391
		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R313		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272
		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R314		CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821
		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R315		CARBON RES. 1/6W J 560 Ω or	RCX6JATZ0561
		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R316		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101 RCX4JATZ0101
D217		CARBON RES. 1/4W J 100 $\Omega$ CARBON RES. 1/6W J 1.5k $\Omega$ or	RCX6JATZ0152
R317		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R318		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R319		CARBON RES. 1/6W J 1.5k Ω or	RCX6JATZ0152
		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R320		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R322	A,B	CARBON RES. 1/4W J 2.2k $\Omega$ or	RCX4JATZ0222
	A,B	CARBON RES. 1/6W J 2.2k Ω	RCX6JATZ0222
R322	C,D	CARBON RES. 1/6W J 2.4k Ω or	RCX6JATZ0242
	C,D	CARBON RES. 1/4W J 2.4k Ω	RCX4JATZ0242
R323		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272
Door		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272 RCX6JATZ0223
R324		CARBON RES. 1/6W J 22k $\Omega$ or CARBON RES. 1/4W J 22k $\Omega$	RCX4JATZ0223
R325		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0223
R326		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R327		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R328		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R329		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R330		CARBON RES. 1/6W J 390 Ω or	RCX6JATZ0391
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Ref. No.	Mark	Description	Part No.	1	Ref. No.	Mark	Description	Part No.
		CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391	1	R463	T	CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
R331	A,B	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221				CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
	A,B	CARBON RES. 1/6W J 220 Ω	RCX6JATZ0221		R464		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R331	C,D	PCB JUMPER D0.6-P5.0	JW5.0T	1	R465		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R334	-,-	CARBON RES. 1/6W J 1.8k Ω or	RCX6JATZ0182		R466		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182				CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R335		CARBON RES. 1/6W J 1.5k Ω or	RCX6JATZ0152		R467	1	CARBON RES. 1/6W J 39k Ω or	RCX6JATZ0393
		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152	1	1		CARBON RES. 1/4W J 39k Ω	RCX4JATZ0393
R336		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822		R501	}	CARBON RES. 1/6W J 680k Ω or	RCX6JATZ0684
. 1000		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822	1	1		CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R341		CARBON RES. 1/4W J 33k Ω or	RCX4JATZ0333		R502		CARBON RES. 1/6W J 680k Ω or	RCX6JATZ0684
		CARBON RES. 1/6W J 33k Ω	RCX6JATZ0333		1.002		CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R401	1	CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222		R503		CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
	ļ	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222	ı	R504	•	CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
R402		CARBON RES. 1/6W J 6.8k Ω or	RCX6JATZ0682	ı	R505		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682	ı	7,000		CARBON RES. 1/4W J 100k $\Omega$	RCX4JATZ0104
R403		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222		R506		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
11400	ì	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222	ı	1,000		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R404		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222	ı	R507		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
11707		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222		11.007		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R405		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102	1	R508		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
R406		CARBON RES. 1/6W J 22k Ω or	RCX6JATZ0223		1,000		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
11100		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223		R513		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
R408		CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473	ŀ	1.070		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
11400		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473		R515		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
R409		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101	İ	1.0.0		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101		R516		CARBON RES. 1/6W J 330k Ω or	RCX6JATZ0334
R410		CARBON RES. 1/6W J 820 Ω or	RCX6JATZ0821		1		CARBON RES. 1/4W J 330k Ω	RCX4JATZ0334
		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821	ł	R517		CARBON RES. 1/6W J 56k Ω or	RCX6JATZ0563
R411	1	CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222	1			CARBON RES. 1/4W J 56k Ω	RCX4JATZ0563
		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222		R518		CARBON RES. 1/6W J 27k Ω or	RCX6JATZ0273
R412		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222	1			CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222	l	R519		CARBON RES. 1/6W J 22k Ω or	RCX6JATZ0223
R413		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103	]			CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
	ļ	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103		R521		CARBON RES. 1/6W J 270 Ω or	RCX6JATZ0271
R414		CARBON RES. 1/6W J 12k Ω or	RCX6JATZ0123	İ			CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
	1	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123	ļ	R522		CARBON RES. 1/4W J 68k Ω	RCX4JATZ0683
R415		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472		R523		CARBON RES. 1/6W J 1.2k Ω or	RCX6JATZ0122
R416		CARBON RES. 1/6W J 12k Ω or	RCX6JATZ0123	1			CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
	ĺ	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123	1	R524		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
R417	İ	CARBON RES. 1/6W J 330k Ω or	RCX6JATZ0334				CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
		CARBON RES. 1/4W J 330k Ω	RCX4JATZ0334		R525	1	CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
R418		CARBON RES. 1/6W J 120 Ω or	RCX6JATZ0121				CARBON RES. 1/4W J 10k Ω	RCXIJATZ0103
		CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121		R526		CARBON RES. 1/6W J 560k Ω or	RCX6JATZ0564
R419		CARBON RES. 1/6W J 27k Ω or	RCX6JATZ0273	1			CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
		CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273		R529		CARBON RES. 1/4W J 4.7k Ω	RCXIJATZ0472
R420		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102	1	R530		CARBON RES. 1/6W J 39k Ω or	RCXiJATZ0393
R421		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272		1		CARBON RES. 1/4W J 39k Ω	RCXIJATZ0393
		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272		R531		CARBON RES. 1/6W J 100k $\Omega$ or	RCXiJATZ0104
R422		CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562				CARBON RES. 1/4W J 100k Ω	RCXIJATZ0104
R425		CARBON RES. 1/6W J 2.2M $\Omega$ or	RCX6JATZ0225	l	R532		CARBON RES. 1/6W J 100k $\Omega$ or	RCXiJATZ0104
		CARBON RES. 1/4W J 2.2M Ω	RCX4JATZ0225			i	CARBON RES. 1/4W J 100k $\Omega$	RCX/JATZ0104
R453		CARBON RES. 1/6W J 470 Ω or	RCX6JATZ0471	1	R533		CARBON RES. 1/6W J 100k $\Omega$ or	RCXiJATZ0104
		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471				CARBON RES. 1/4W J 100k $\Omega^{\circ}$	RCX-JATZ0104
R454		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272		R534		CARBON RES. 1/6W J 10k $\Omega$ or	RCXIJATZ0103
		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272	l			CARBON RES. 1/4W J 10k $\Omega$	RCX JATZ0103
R455	] :	CARBON RES. 1/6W J 220k Ω or	RCX6JATZ0224	l	R538		CARBON RES. 1/4W J 4.7k $\Omega$	RCX JATZ0472
	1	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224		R539		CARBON RES. 1/4W J 4.7k $\Omega$	RCXUATZ0472
R456	[	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102	1	R541		CARBON RES. 1/6W J 10k $\Omega$ or	RCXIJATZ0103
R457		PCB JUMPER D0.6-P5.0	JW5.0T				CARBON RES. 1/4W J 10k Ω	RCX-JATZ0103
R460		CARBON RES. 1/6W J 39k $\Omega$ or	RCX6JATZ0393		R542	C,D	CARBON RES. 1/6W J 10k $\Omega$ or	RCXUATZ0103
		CARBON RES. 1/4W J 39k $\Omega$	RCX4JATZ0393		[	C,D	CARBON RES. 1/4W J 10k Ω	RCX/JATZ0103
R461		CARBON RES. 1/6W J 8.2k $\Omega$ or	RCX6JATZ0822		R545		CARBON RES. 1/6W J 100k $\Omega$ or	RCX(JATZ0104
		CARBON RES. 1/4W J 8.2k $\Omega$	RCX4JATZ0822				CARBON RES. 1/4W J 100k $\Omega$	RCX4JATZ0104
R462		CARBON RES. 1/6W J 22k $\Omega$ or	RCX6JATZ0223		R548	ĺ	CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223		1		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103

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Ref. No.	Mark	Description	Part No. RCX6JATZ0103
R552		CARBON RES. 1/6W J 10k Ω or	RCX4JATZ0103
DECE	2.5	CARBON RES. 1/4W J 10k Ω	RCX6JATZ0103
R555	C,D	CARBON RES. 1/6W J 10k Ω or	RCX4JATZ0103
DECO	C,D	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R558		CARBON RES. 1/6W J 10k Ω or	RCX4JATZ0103
DE04		CARBON RES. 1/4W J 10k Ω	RCX6JATZ0103
R561		CARBON RES. 1/6W J 10k Ω or	l l
DECC		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R562		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
5500		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103 RCX6JATZ0103
R563		CARBON RES. 1/6W J 10k Ω or	RCX4JATZ0103
DE00		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R566		CARBON RES. 1/6W J 10k Ω or	
D=00		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R568		CARBON RES. 1/6W J 1.2k Ω or	RCX6JATZ0122
D=00		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R569		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R570		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R571		PCB JUMPER D0.6-P5.0	JW5.0T
R572	1	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R573		CARBON RES. 1/6W J 22k Ω or	RCX6JATZ0223
		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R574		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R575		CARBON RES. 1/6W J 22k Ω or	RCX6JATZ0223
1		CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R577		CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010
R578	1	CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010
R579		CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010
R580		CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R581		CARBON RES. 1/6W J 1.5k Ω or	RCX6JATZ0152
		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R582		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R584		CARBON RES. 1/6W J 1.8k Ω or	RCX6JATZ0182
		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R585		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R586		CARBON RES. 1/6W J 1.2k Ω or	RCX6JATZ0122
2502	-	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R587		CARBON RES. 1/6W J 1.5k Ω or	RCX6JATZ0152
		CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R595		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R597		CARBON RES. 1/6W J 47 $\Omega$ or CARBON RES. 1/4W J 47 $\Omega$	RCX6JATZ0470 RCX4JATZ0470
DEOO		_ · · · · - · · · · · · · · · · · · · ·	RCX4GATZ0470
R598		CARBON RES. 1/4W G 4.7k Ω or	RCX4GATZ0472
Deat	CD	CARBON RES. 1/6W G 4.7k Ω CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
R601	C,D	CARBON RES. 1/6W J 10k Ω or CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
Dear	C,D		RCX6JATZ0103
R606		CARBON RES. 1/6W J 100k Ω or	RCX4JATZ0104
Deco		CARBON RES. 1/4W J 100k Ω	JW5.0T
R608		PCB JUMPER D0.6-P5.0 CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R610		***************************************	RCX4JATZ0102
R612		CARBON RES. 1/6W J 10k Ω or	RCX4JATZ0103
DC+0		CARBON RES. 1/4W J 10k Ω	JW5.0T
R616		PCB JUMPER D0.6-P5.0	RCX6JATZ0103
R701		CARBON RES. 1/6W J 10k Ω or	
0755		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R702		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R703		CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
		CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R706		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R707		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102

Ref. No.	Mark	Description	Part No.
	IVIALK	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R714			
R752		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R851	C,D	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R852	C,D	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R853	C,D	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R854	C,D	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R855	C,D	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
		SWITCHES	
SW501		TACT SWITCH KSM0614B or	SST0101HH013
	1	TACT SWITCH SKQSAF001A	SST0101AL041
SW502		TACT SWITCH KSM0614B or	SST0101HH013
0		TACT SWITCH SKQSAF001A	SST0101AL041
SW504		TACT SWITCH KSM0614B or	SST0101HH013
011007		TACT SWITCH SKQSAF001A	SST0101AL041
SW505		TACT SWITCH KSM0614B or	SST0101HH013
SWOOD		TACT SWITCH SKQSAF001A	SST0101111010
0)4/500			
SW506		PUSH SWITCH SPPB61066A	SSP0102AL001
SW507	l	TACT SWITCH KSM0611B	SST0101HH004
	r	MISCELLANEOUS	0.44000747
2B7		SHIELD, HEAD(U19 PAL)	0VM303717
2B8		BUSH, LED(F)	0VM409508
2824		SHIELD, HEAD(BOTTOM)	0VM409732
2B26		BUSH, LED(E)	0VM408832
A4		JACK BOARD(GK)	0VM303673
AC001 🛧		AC CORD LA-2289	WAE0172LW002
F001 🛧		FUSE T1.6AL/250V or	PAGC20BW3162
$\triangle$		FUSE T1.6AL/250V	1790994
FH001		FUSE HOLDER MSF-015 or	XH01Z00LY001
		FUSE HOLDER FH-V-03078-1	XH01Z00DK002
FH002		FUSE HOLDER MSF-015 or	XH01Z00LY001
	1	FUSE HOLDER FH-V-03078-1	XH01Z00DK002
FP501	A,B	F.I.P. 10-BT-119G	TVFD1C0FT024
FP501	C,D	F.I.P. 25U34111BAN	TVFD1C0FT033
JW751	0,0	FFC CABLE 19P or	WX1H4705-001
*****		FFC CABLE 19P	WX1H2605-001
JW752		RF CORD LA-2290-1	WPZ0600LW001
MD701		RF MODULATOR (PAL-G) NJH3032G201	
RS501		REMOTE RECEIVER PIC-26042LU or	USESJRSKK022
nooui		REMOTE RECEIVER NJL65V367B	USESJRSJR013
T004 A			LTT00EP\$A030
T001 <u>↑</u>		PULSE TRANS A0724B S1629	
TP301		PCB JUMPER D0.6-P27.5	JW27.5T
TP302		PCB JUMPER D0.6-P7.5	JW7.5T
TP303		PCB JUMPER D0.6-P15.0	JW15.0T
TP501	ļ	PCB JUMPER D0.6-P10.0	JW10.0T
TP502		PCB JUMPER D0.6-P10.0	JW10.0T
TP505		PCB JUMPER D0.6-P5.0	JW5.0T
TP506		PCB JUMPER D0.6-P5.0	JW5.0T
TP507		PCB JUMPER D0.6-P5.0	JW5.0T
TP751		PCB JUMPER D0.6-P5.0	JW5.0T
TP752		PCB JUMPER D0.6-P12.5	JW12.5T
TP754		PCB JUMPER D0.6-P10.0	JW10.0T
TU701		TUNER UNIT UVE25-EW61D	UTUNPLB/1M006
VR501		CARBON P.O.T. 100k Ω B(H) or	VRCB1041H009
		CARBON P.O.T. 100k Ω B	VRCB104(A011
X302		X'TAL 4.433619MHZ or	1811388
1		X'TAL 4.433619MHZ	FXC445LNL001
X501		X'TAL 32.768KHZ or	FXB323L05002
^\\\		X'TAL 32KHZ(10PPM)	1811351
X502		X'TAL 13.300857MHZ or	FXE136L0S001
1,202		X'TAL 13.300857MHZ or	FXD136LN_001
L		X'TAL 13.300857MHZ	FXD136LCT 003

**Function CBA (MCV-B)** 

Ref. No.	Description	Part No.
	Function CBA (MCV-B)	
	CONNECTOR	
CN651	ANGLE SOCKET CONNECTOR, 3P	JC91B03ER001
0.1001	RESISTORS	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
R651	CARBON RES. 1/6W J 1.8k Ω or	RCX6JATZ0182
	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R652	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R653	CARBON RES. 1/6W J 1.2k Ω or	RCX6JATZ0122
	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R654	CARBON RES. 1/6W J 1.5k Ω or	RCX6JATZ0152
71001	CARBON RES. 1/4W J 1.5k Ω	RCX4JATZ0152
R655	CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
11000	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R656	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
11000	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R657	CARBON RES. 1/6W J 2.2k Ω or	RCX6JATZ0222
11001	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R658	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
11000	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R659	CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822
H009	CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R660	CARBON RES. 1/6W J 22k Ω or	RCX6JATZ0223
N000	CARBON RES. 1/4W J 22k $\Omega$	RCX4JATZ0223
	SWITCHES	110/40/1/20223
SW651	TACT SWITCH KSM0614B or	SST0101HH013
OWOOT	TACT SWITCH SKQSAF001A	SST0101AL041
SW652	TACT SWITCH KSM0614B or	SST0101HH013
011002	TACT SWITCH SKQSAF001A	SST0101AL041
SW653	TACT SWITCH KSM0614B or	SST0101HH013
011000	TACT SWITCH SKQSAF001A	SST0101AL041
SW654	TACT SWITCH KSM0614B or	SST0101HH013
011004	TACT SWITCH SKQSAF001A	SST0101AL041
SW655	TACT SWITCH KSM0614B or	SST0101HH013
011000	TACT SWITCH SKQSAF001A	SST0101AL041
SW656	TACT SWITCH KSM0614B or	SST0101HH013
344000	TACT SWITCH SKQSAF001A	SST0101AL041
SW657	TACT SWITCH KSM0614B or	SST0101HH013
011007	TACT SWITCH SKQSAF001A	SST0101AL041
SW658	TACT SWITCH KSM0614B or	SST0101HH013
044000	TACT SWITCH SKQSAF001A	SST0101111013
SW659	TACT SWITCH KSM0614B or	SST0101HH013
C11003	TACT SWITCH SKQSAF001A	SST0101AL041
SW660	TACT SWITCH SRUSAF00TA	SST0101HH013
OWOOO	TACT SWITCH KSM00148 01	SST0101111013
	I IACT SWITCH SNUSAFUUTA	3310101AL041

IF CBA (IFV)

Ref. No.	Description	Part No.
IF701	IF CBA (IFV)	0VSA09777
	CAPACITORS	
C02	CHIP CERAMIC CAP. CH J 27pF/50V	CHE1JJ3CH270
C03	CHIP CERAMIC CAP. CH J 27pF/50V	CHE1JJ3CH270
·C04	CHIP CERAMIC CAP. B K 0.01µF/50V	CHE1JK30B103
C08	CHIP CERAMIC CAP. CH J 15pF/50V	CHE1JJ3CH150
C09	CHIP CERAMIC CAP. PH J 12pF/50V	CHE1JJ3PH120
C10	CHIP CERAMIC CAP. B K 2200pF/50V	CHE1JK30B222
C11	CHIP CERAMIC CAP. B K 0.01 µF/50V	CHE1JK30B103
C13	CHIP CERAMIC CAP. B K 0.022µF/50V	CHE1JK30B223
C15	CHIP CERAMIC CAP. B K 2200pF/50V	CHE1JK30B222
C16	CHIP CERAMIC CAP. B K 2200pF/50V	CHE1JK30B222
C17	CHIP CERAMIC CAP. B K 8200pF/50V	CHE1JK30B822
C18	CHIP CERAMIC CAP. CK C 1pF/50V	CHE1JC3CK1R0
C19	CHIP CERAMIC CAP. CJ C 3pF/50V	CHE1JC3CJ3R0
C20	CHIP CERAMIC CAP. CK C 1pF/50V	CHE1JC3CK1R0
C21	CHIP CERAMIC CAP. CK C 1pF/50V	CHE1JC3CK1R0

Ref. No.	Description STRANGO CAR BY COMMENT OF THE PROPERTY OF THE PROP	Part No.	
C31	CHIP CERAMIC CAP. B K 0.022µF/50V	CHE1JK30B223	
C32	CHIP CERAMIC CAP. B K 0.022µF/50V	CHE1JK30B223	
C33 C34	CHIP CERAMIC CAP. B K 0.1µF/25V CHIP CERAMIC CAP. CH J 33pF/50V	CHE1EK30B104 CHE1JJ3CH330	
C36	CHIP CERAMIC CAP. CH J 335P/30V	CHE1JJ3CH101	
C41	CHIP CERAMIC CAP. CH J 100PF/50V	CHE1JJ3CH151	
C41	CHIP CERAMIC CAP. OF 3 190P/30V	CHE1503CH151	
C43	CHIP CERAMIC CAP. B K 0.01µF/25V	CHE1JK30B103	
C44	CHIP CERAMIC CAP. B K 0.01 µF/50V	CHE1JK30B103	
C45	CHIP CERAMIC CAP. B K 0.01 µF/50V	CHE1JK30B103	
C46	CHIP CERAMIC CAP. B K 0.1 µF/25V	CHE1EK30B104	
C47	CHIP CERAMIC CAP. B K 0.01 µF/50V	CHE1JK30B103	
C49	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR6Z0182	
	CHIP RES. 1/8W J 1.8k Ω	RRX&JR6Z0182	
C50	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR6Z0182	
	CHIP RES. 1/8W J 1.8k Ω	RRX&JR6Z0182	
C52	CHIP CERAMIC CAP. CH J 15pF/50V	CHE1JJ3CH150	
C61	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMASSL010	
C62	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100	
C63	ELECTROLYTIC CAP. 0.47µF/50V M H7	CE1JMASSLR47	
C64	ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMASSL4R7	
C65	ELECTROLYTIC CAP. 0.47µF/50V M H7	CE1JMASSLR47	
C81	FILM CAP.(PP) 1500pF/100V J	2231152	
C82	ELECTROLYTIC CAP. 2.2µF/50V M H7	CE1JMASSL2R2	
C91	ELECTROLYTIC CAP. 2.2µF/50V M H7	CE1JMASSL2R2	
C92	ELECTROLYTIC CAP. 2.2μF/50V M H7	CE1JMASSL2R2	
C93	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100	
C94	ELECTROLYTIC CAP. 100μF/10V M H7	CE1AMASSL101	
C95	ELECTROLYTIC CAP. 2.2μF/50V M H7	CE1JMASSL2R2	
C96	ELECTROLYTIC CAP. 2.2μF/50V M H7	CE1JMASSL2R2	
C97	ELECTROLYTIC CAP. 100μF/10V M H7  CONNECTORS	CE1AMASSL101	
CN01	ANGLE PIN HEADER, 7P	5700067	
CN31	ANGLE PIN HEADER, 5P	5700055	
0.10.	DIODES	10.0000	
D41	ZENER DIODE MTZJT-776.8B	QDTBDMTZJ6R8	
_	ICS		
IC01	IC LA7565E	QSBLA0SSY079	
IC31	IC TBA120U	NSBLAOSPH010	
IC41	IC TDA9845/V2	NSBLAOSPH008	
1.04	COILS	LLAVIATTUREO	
L01	INDUCTOR 15µH J 26T or	LLAXIATTU150	
L02	INDUCTOR 15µH J 26T INDUCTOR 10µH J 26T or	LLAXIDTKA150 LLAXIATTU100	
LUZ	INDUCTOR 10µH J 26T	LLAX,DTKA100	
L31	INDUCTOR 2.2µH J 26T or	LLAX.ATTU2R2	
201	INDUCTOR 2.2µH J 26T	LLAXIDTKA2R2	
T01	COIL KY641R	LFA07V0LH013	
T02	COIL KY640R	LFA07/0LH012	
T03	COIL KY640R	LFA07/OLH012	
T31	COIL S-061-5025	117D95.5	
T41	COIL FB-7LG	LFA07/0SF129	
TRANSISTORS			
Q01	TRANSISTOR 2SA1317(S) or	A13175Z	
	TRANSISTOR 2SA1317(T)	A13177Z	
Q31	TRANSISTOR 2SC2785(J) or	QQSJ)2SC2785	
	TRANSISTOR 2SC2785(H) or	QQSH) 2SC2785	
	TRANSISTOR 2SC2785(F) or	QQSF)2SC2785	
	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815	
	TRANSISTOR 2SC1815-GR(TPE2) or	QQS1)2SC1815	
	TRANSISTOR 2SC1740(Q) or	C174(QZ	
	TRANSISTOR 2SC1740(R) or	C174(RZ	
	TRANSISTOR KTC3199(Y) or	NQSYn⊮TC3199	
	TRANSISTOR KTC3199(Y) or TRANSISTOR KTC3199(GR)	l i	
R01	TRANSISTOR KTC3199(Y) or	NQSYn⊮TC3199	

Ref. No.	Description	Part No.
500	CHIP RES. (2125TYPE) 1/8W J 10k Ω	RRX8JR6Z0103
R02	CHIP RES. 1/10W J 330 Ω or	RRXAJR6Z0331 RRX8JR6Z0331
R03	CHIP RES.(2125TYPE) 1/8W J 330 $\Omega$ CHIP RES. 1/10W J 68 $\Omega$ or	RRXAJR6Z0680
nus	CHIP RES. (2125TYPE) 1/8W J 68 Ω	RRX8JR6Z0680
R06	CHIP RES. 1/10W J 220 Ω or	RRXAJR6Z0221
1000	CHIP RES. (2125TYPE) 1/8W J 220 Ω	RRX8JR6Z0221
R07	CHIP RES. 1/10W J 180 Ω or	RRXAJR6Z0181
11.07	CHIP RES.(2125TYPE) 1/8W J 180 Ω	RRX8JR6Z0181
R08	CHIP RES. 1/10W J 330 Ω or	RRXAJR6Z0331
1.00	CHIP RES.(2125TYPE) 1/8W J 330 Ω	RRX8JR6Z0331
R09	CHIP RES. 1/10W J 150k Ω or	RRXAJR6Z0154
	CHIP RES. 1/8W J 150k Ω	RRX8JR6Z0154
R10	CHIP RES. 1/10W J 82k Ω or	RRXAJR6Z0823
	CHIP RES. 1/8W J 82k Ω	RRX8JR6Z0823
R11	CHIP RES. 1/10W J 120k Ω or	RRXAJR6Z0124
	CHIP RES. 1/8W J 120k Ω	RRX8JR6Z0124
R12	CHIP RES. 1/10W J 120k Ω or	RRXAJR6Z0124
	CHIP RES. 1/8W J 120k Ω	RRX8JR6Z0124
R13	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR6Z0822
	CHIP RES. 1/8W J 8.2k Ω	RRX8JR6Z0822
R14	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR6Z0682
	CHIP RES. 1/8W J 6.8k Ω	RRX8JR6Z0682
R16	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR6Z0472
1	CHIP RES.(2125TYPE) 1/8W J 4.7k Ω	RRX8JR6Z0472
R17	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR6Z0222
	CHIP RES.(2125TYPE) 1/8W J 2.2k Ω	RRX8JR6Z0222
R19	CHIP RES. 1/10W J 100 Ω or	RRXAJR6Z0101
R20	CHIP RES. (2125TYPE) 1/8W J 100 Ω	RRX&JR6Z0101 RRXAJR6Z0271
HZU	CHIP RES. 1/10W J 270 $\Omega$ or CHIP RES. 1/8W J 270 $\Omega$	RRX8JR6Z0271
R21	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
112	CHIP RES.(2125TYPE) 1/8W 0 $\Omega$	RRX8JR6Z0000
R24	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
' '- '	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
R29	CHIP RES. 1/10W J 10k Ω or	RRXAJR6Z0103
	CHIP RES.(2125TYPE) 1/8W J 10k Ω	RRX8JR6Z0103
R31	CHIP RES. 1/10W J 1k Ω or	RRXAJR6Z0102
	CHIP RES.(2125TYPE) 1/8W J 1k Ω	RRX8JR6Z0102
R33	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR6Z0472
	CHIP RES.(2125TYPE) 1/8W J 4.7k Ω	RRX8JR6Z0472
R34	CHIP RES. 1/10W J 12k Ω or	RRXAJR6Z0123
	CHIP RES.(2125TYPE) 1/8W J 12k Ω	RRX8JR6Z0123
R35	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR6Z0392
	CHIP RES.(2125TYPE) 1/8W J 3.9k Ω	RRX8JR6Z0392
R36	CHIP RES. 1/10W J 47k Ω or	RRXAJR6Z0473
R37	CHIP RES. (2125TYPE) 1/8W J 47k Ω CHIP RES. 1/10W J 12k Ω or	RRX8JR6Z0473 RRXAJR6Z0123
l noi	CHIP RES. (2125TYPE) 1/8W J 12k Ω	RRX8JR6Z0123
R38	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR6Z0472
1100	CHIP RES.(2125TYPE) 1/8W J 4.7k Ω	RRX8JR6Z0472
R39	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR6Z0152
'''	CHIP RES. 1/8W J 1.5k Ω	RRX8JR6Z0152
R41	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
R42	CHIP RES. 1/10W J 1.5k $\Omega$ or	RRXAJR6Z0152
_	CHIP RES. 1/8W J 1.5k Ω	RRX8JR6Z0152
R43	CHIP RES. 1/10W J 10k Ω or	RRXAJR6Z0103
	CHIP RES.(2125TYPE) 1/8W J 10k Ω	RRX8JR6Z0103
R45	CHIP RES. 1/10W J 3.9k $\Omega$ or	RRXAJR6Z0392
	CHIP RES.(2125TYPE) 1/8W J 3.9k $\Omega$	RRX8JR6Z0392
R46	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR6Z0392
	CHIP RES.(2125TYPE) 1/8W J 3.9k Ω	RRX8JR6Z0392
R47	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR6Z0272
	CHIP RES. (2125TYPE) 1/8W J 2.7k Ω	RRX8JR6Z0272
R48	CHIP RES. 1/10W J 180 Ω or	RRXAJR6Z0181

Ref. No.	Description	Part No.
	CHIP RES.(2125TYPE) 1/8W J 180 Ω	RRX8JR6Z0181
C49	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR6Z0392
	CHIP RES.(2125TYPE) 1/8W J 3.9k Ω	RRX8JR6Z0392
C50	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR6Z0392
	CHIP RES.(2125TYPE) 1/8W J 3.9k Ω	RRX8JR6Z0392
J01	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
J02	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
J04	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
J05	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
J06	CHIP RES. 1/10W 0 $\Omega$ or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
J07	CHIP RES. 1/10W 0 $\Omega$ or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
J31	CHIP RES. 1/10W 0 $\Omega$ or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
J32	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
	MISCELLANEOUS	
2B16	SHIELD, TOP(NICAM)	0VM303423
2B17	SHIELD, BOTTOM(NICAM)	0VM303424
F01	SAW FILTER TSF5355T	FBB386PSY008
F02	CERAMIC FILTER 5.5MHZ	FBB555PMR004
F03	CERAMIC TRAP 5.5MHZ/5.74MHZ	FBE575PMS004
F31	CERAMIC FILTER 5.742MHZ	FBB575PMR001
VR01	CARBON P.O.T. 22k Ω B or	VRCB223KA012
	CARBON P.O.T. 22k Ω B	138A961
VR31	CARBON P.O.T. 5k Ω B(H) or	VRCB502HH009
	CARBON P.O.T. 5k Ω B	VRCB502KA011
VR41	CARBON P.O.T. 5k Ω B(H) or	VRCB502HH009
	CARBON P.O.T. 5k Ω B	VRCB502KA011
X41	X'TAL 10.000MHZ	FXD106LDS001

Jack CBA (JCV)

Ref. No.	Description	Part No.
	Jack CBA (JCV)	0VSA09757
	CAPACITORS	
C901	CHIP CERAMIC CAP. B K 2200pF/50V	CHE1JK30B222
C902	CHIP CERAMIC CAP. B K 2200pF/50V	CHE1JK30B222
C903	CHIP CERAMIC CAP. B K 470pF/50V	CHE1JK30B471
C904	CHIP CERAMIC CAP. B K 470pF/50V	CHE1JK30B471
C907	CHIP CERAMIC CAP. B K 2200pF/50V	CHE1JK30B222
C909	CHIP CERAMIC CAP. B K 2200pF/50V	CHE1JK30B222
C914	CHIP CERAMIC CAP. F Z 0.1µF/50V	CHE1JZ30F104
C915	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C916	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C917	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C918	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMASSL010
C919	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C920	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C921	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMASSL4R7
C922	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMASSL4R7
C923	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C924	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C925	CHIP CERAMIC CAP. CK C 1pF/50V	CHE1JC3CK1R0
C926	CHIP CERAMIC CAP. B K 470pF/50V	CHE1JK30B471
C927	ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASDL471
C928	ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C929	ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C930	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMASSL4R7
C931	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C932	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7

Ref. No.         Description         Part           C933         ELECTROLYTIC CAP. 4.7μF/25V M H7         CE1EMA           C934         ELECTROLYTIC CAP. 4.7μF/25V M         CE1EMA		
	3314H/I	
1 C304   ELECTROLITIC CAR. 4.7 \text{\text{\psi}} 125 VIVI	L L	
C935 ELECTROLYTIC CAP. 4.7μF/25V M CE1EMA		
C936 ELECTROLYTIC CAP. 4.7µ7/22V M CE1AMA		
C938 ELECTROLYTIC CAP. 330µF/6.3V M CE0KMA		
C939 ELECTROLYTIC CAP. 47µF/16V M CE1CMA		
C941 ELECTROLYTIC CAP. 4.7μF/25V M CE1EMA		
C942 CHIP CERAMIC CAP. CH J 100pF/50V CHE1JJ3		
C943 CHIP CERAMIC CAP. CH J 100pF/50V CHE1JJ3		
C944 CHIP CERAMIC CAP. CH J 100pF/50V CHE1JJ3		
C945 CHIP CERAMIC CAP. CH J 220pF/50V CHE1JJ3		
C946 CHIP CERAMIC CAP. CH J 220pF/50V CHE1JJ3	CH221	
C947 CHIP CERAMIC CAP. CH J 220pF/50V CHE1JJ3		
C948 CHIP CERAMIC CAP. CH J 150pF/50V CHE1JJ3	CH151	
C949 CHIP CERAMIC CAP. CH J 220pF/50V CHE1JJ3	CH221	
C950 CHIP CERAMIC CAP. B K 1000pF/50V CHE1JK	30B102	
C951 CHIP CERAMIC CAP. B K 470pF/50V CHE1JK	30B471	
C953 CHIP CERAMIC CAP. CH J 56pF/50V CHE1JJ3	CH560	
CONNECTOR		
CN901 FFC CONNECTOR BASE, SIDE 19P JC04J19	ER001	
DIODES		
D901 ZENER DIODE MTZJT-775.1A or QDTA0M		
ZENER DIODE MTZJT-775.1B or QDTB0N		
ZENER DIODE MTZJT-775.1C QDTC0N		
D902 ZENER DIODE MTZJT-775.1A or QDTA0M		
ZENER DIODE MTZJT-775.1B or QDTB0N	TZJ5R1	
ZENER DIODE MTZJT-775.1C QDTC0N	ITZJ5R1	
D903 ZENER DIODE MTZJT-775.1A or QDTA0M	TZJ5R1	
ZENER DIODE MTZJT-775.1B or QDTB0N	ITZJ5R1	
ZENER DIODE MTZJT-775.1C QDTC0N	ITZJ5R1	
D904 ZENER DIODE MTZJT-775.1A or QDTA0M	TZJ5R1	
ZENER DIODE MTZJT-775.1B or QDTB0N	TZJ5R1	
ZENER DIODE MTZJT-775.1C QDTC0N		
D905 ZENER DIODE MTZJT-775.1A or QDTA0M	TZJ5R1	
ZENER DIODE MTZJT-775.1B or QDTB0N	TZJ5R1	
ZENER DIODE MTZJT-775.1C QDTC0N	ITZJ5R1	
D906 ZENER DIODE MTZJT-775.1A or QDTA0M	TZJ5R1	
ZENER DIODE MTZJT-775.1B or QDTB0N	ITZJ5R1	
ZENER DIODE MTZJT-775.1C QDTC0M	ITZJ5R1	
D907 ZENER DIODE MTZJT-775.1A or QDTA0M	TZJ5R1	
ZENER DIODE MTZJT-775.1B or QDTB0M	ITZJ5R1	
ZENER DIODE MTZJT-775.1C QDTC0N		
D908 ZENER DIODE MTZJT-775.1A or QDTA0M		
ZENER DIODE MTZJT-775.1B or QDTB0M		
ZENER DIODE MTZJT-775.1C QDTCOM		
D911 ZENER DIODE MTZJT-7711A QDTA00I		
D912 ZENER DIODE MTZJT-7711A QDTA00I		
D913 ZENER DIODE MTZJT-7711A QDTA001		
I		
D917 ZENER DIODE MTZJT-7711A QDTA001		
D918 ZENER DIODE MTZJT-7711A QDTA001		
D919 ZENER DIODE MTZJT-7711A QDTA001		
D920 ZENER DIODE MTZJT-7711A QDTA00I	VII ZJ I I	
IC901 IC LA7157M-TRM QSMLA0	TSY030	
TRANSISTOR		
Q903 RES. BUILT-IN TRANSISTOR DTC124ES or C124ES2		
RES. BUILT-IN TRANSISTOR KRC103M NQSZ0K		
RESISTORS		
R901 CHIP RES. 1/10W J 820 Ω or RRXAJR	3Z0821	
CHIP RES.(2125TYPE) 1/8W J 820 Ω RRX8JR6	Z0821	
DDVAID	6Z0821	
R902 CHIP RES. 1/10W J 820 $\Omega$ or RRXAJR		

Ref. No.	Description	Part No.
R903	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR6Z0472
	CHIP RES.(2125TYPE) 1/8W J 4.7k Ω	RRX8JR6Z0472
R904	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR6Z0472
	CHIP RES.(2125TYPE) 1/8W J 4.7k Ω	RRX8JR6Z0472
R905	CHIP RES. 1/10W J 75 Ω or	RRXAJR6Z0750
	CHIP RES.(2125TYPE) 1/8W J 75 Ω	RRX8JR6Z0750
R906	CHIP RES. 1/10W J 75 Ω or	RRXAJR6Z0750
	CHIP RES.(2125TYPE) 1/8W J 75 Ω	RRX8JR6Z0750
R907	CHIP RES. 1/10W J 820 Ω or	RRXAJR6Z0821
	CHIP RES.(2125TYPE) 1/8W J 820 Ω	RRX8JR6Z0821
R908	CHIP RES. 1/10W J 820 Ω or	RRXAJR6Z0821
	CHIP RES.(2125TYPE) 1/8W J 820 Ω	RRX8JR6Z0821
R909	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR6Z0472
	CHIP RES.(2125TYPE) 1/8W J 4.7k Ω	RRX8JR6Z0472
R910	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR6Z0472
	CHIP RES.(2125TYPE) 1/8W J 4.7k Ω	RRX8JR6Z0472
R911	CHIP RES. 1/10W J 75 Ω or	RRXAJR6Z0750
	CHIP RES.(2125TYPE) 1/8W J 75 Ω	RRX8JR6Z0750
R912	CHIP RES. 1/10W J 75 Ω or	RRXAJR6Z0750
ŀ	CHIP RES.(2125TYPE) 1/8W J 75 Ω	RRX8JR6Z0750
R914	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR6Z0152
	CHIP RES. 1/8W J 1.5k Ω	RRX8JR6Z0152
R920	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000
R921	CHIP RES. 1/10W J 75 Ω or	RRXAJR6Z0750
	CHIP RES.(2125TYPE) 1/8W J 75 Ω	RRX8JR6Z0750
R922	CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R926	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R927	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R928	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R929	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R930	CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
D000	CHIP RES.(2125TYPE) 1/8W 0 Ω	RRX8JR6Z0000 RRXAZR6Z0000
R932	CHIP RES. 1/10W 0 \( \Omega\) or	RRX8JR6Z0000
	CHIP RES.(2125TYPE) 1/8W 0 Ω	30
D909	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
J919	CARBON RES. 1/6W J 10 Ω or	RCX6JATZ0100
	CARBON RES. 1/4W J 10 $\Omega$	RCX4JATZ0100
	MISCELLANEOUS	
2B21	EARTH PLATE(PCB)	0VM409082
2L061	SCREW, P-TIGHT 3X8 BIND + CHROME	GBMP3080
A5	JACK BOARD:2-21P U17 FTZ	0VM202356
JK901	SKIRT JACK 21P HRC-21V-02P or	JXGL210RP001
	SKIRT JACK 21P HXC1536-010011 or	JSZZ000HD001
	SKIRT JACK, 21P CSS5021-1001	1780260
JK902	SKIRT JACK 21P HRC-21V-02P or	JXGL210RP001
	SKIRT JACK 21P HXC1536-010011 or	JSZZ000HD001
	SKIRT JACK, 21P CSS5021-1001	1780260

# **VPS/PDC CBA**

### (19A-604/19A-624 Model only)

Ref. No.	Description	Part No.
	VPS/PDC CBA	0VSA09607
C639	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C642	SEMICONDUCTOR CAP. SR K 0.056µF/25V or	12Y2563S
	SEMICONDUCTOR CAP. SR K 0.056µF/25V	CDA1EKS0X563
C643	ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7

Ref. No.	Description	Part No.
C644	ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C645	CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103
C648	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL010
C649	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL010
	CONNECTOR	
CN640	ANGLE PIN HEADER, 9P	5700069
	IC	
IC640	IC/VPS,PDC LC74793	QSMLA0SSY032
	COIL	
L641	INDUCTOR 10µH K 26T or	LLAXKATTU100
	INDUCTOR 10µH K 26T	LLAXKDTKA100
	TRANSISTORS	
Q640	TRANSISTOR KTA1267(GR)	NQS10KTA1267
Q641	TRANSISTOR KTC3193(Y) or	NQSY0KTC3193
	TRANSISTOR 2SC2058(Q)	QQSQ02SC2058
	RESISTORS	
R637	CARBON RES. 1/6W J 3.9k Ω or	RCX6JATZ0392
	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R638	CARBON RES. 1/4W J 82k Ω	RCX4JATZ0823
R639	CARBON RES. 1/6W J 180k Ω or	RCX6JATZ0184
	CARBON RES. 1/4W J 180k Ω	RCX4JATZ0184
R641	CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R642	CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272
	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R643	CARBON RES. 1/4W J 5.6k Ω	RCX4JATZ0562
R644	CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
l	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R645	CARBON RES. 1/6W J 10k $\Omega$ or	RCX6JATZ0103
<b>_</b>	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R646	CARBON RES. 1/6W J 240 Ω or	RCX6JATZ0241
D0.7	CARBON RES. 1/4W J 240 Ω	RCX4JATZ0241
R647	CARBON RES. 1/6W J 560 Ω or	RCX6JATZ0561
DO 40	CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R648	CARBON RES. 1/6W J 390 Ω or	RCX6JATZ0391
DC40	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R649	CARBON RES. 1/6W J 390 Ω or	RCX6JATZ0391 RCX4JATZ0391
<b> </b>	CARBON RES. 1/4W J 390 Ω  MISCELLANEOUS	NOX4JA120391
CF640	CERAMIC RESONATOR 4.433MHZ	FY0445PMR001
UF 040	OLITAIVIIG NEOGINATON 4.400IVII IZ	I LOAASE MILION

# **DECK PARTS LIST**

### Note:

Three different, but interchangeable, types of Capstan Motor (B37) may be installed in these models. Based on the type of capstan motor, items B365 and L1063 will be used/not used as shown in the table below.

Туре	Part No.	B365	L1063
Α	MMDZB12SJ007	Not used	Not used
В	MMDZB12SJ006	Not used	Not used
С	N9630CML	Used	Used

Ref. No.	Description	Part No.
286	DECK EARTH PLATE U17	0VM408662
2L051	SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
B1	CHASSIS ASSEMBLY MK8	0VSA09370
B2	CYLINDER ASSEMBLY MK8 PAL 4HD-HIFI or	0VM202472
DZ	CYLINDER ASSEMBLY (MK8) PAL 4HD HIFI	N8167CYL
D0	LOADING MOTOR ASSEMBLY MK7	0VSA08840
B3		0VM409330
B4	MOTOR HOLDER MK8	
B8	PULLEY ASSEMBLY MK6	0VSA08132
B10	MOVING GUIDE T PREPARATION MK7	0VSA09221
B11	LOADING ARM T ASSEMBLY MK7	0VSA08858
B12	LOADING ARM S ASSEMBLY MK8	0VSA09410
B13	LOADING LEVER ASSEMBLY MK7	0VSA08821
B15	LUMIRROR WASHER 3.1X6X0.35	0VM403269
B21	LOADING BELT MK6	0VM407712
B27	TENSION LEVER ASSEMBLY MK8	0VSA09374
B31	AC HEAD ASSEMBLY MK7	0VSA08825
B32	REEL(T) MK8	0VM303516
B35	TAPE GUIDE ASSEMBLY MK8	0VSA09359
B37	CAPSTAN MOTOR F2QTB36 or	MMDZB12SJ007
	CAPSTAN MOTOR 288/CCM001 or	N9630CML
	CAPSTAN MOTOR F2QTB35	MMDZB12\$J006
B38	MODE LEVER MK8	0VM202450
B46	TAPE GUIDE ARM SPRING MK6	0VM407704C
B47	ADJUST SCREW M2.6X6(SOD)	0VM409436
B51	FF ARM MK8	0VM303504
B52	CAPSTAN BELT(2) MK6	0VM408223
B53	REEL P.S.W MK8	0VM409410
B73	FE HEAD(MK7) HVFHP0019A or	DHVEC01AL004
סוט	FE HEAD ASSEMBLY or	N9730FEL
	FE HEAD(MK7) MH-131SF7 or	DHVEC01Z0001
	FE HEAD ASSEMBLY	N9710FEL
D74	PRISM MK8	0VM303518
B74		0VM303171
B81	M LEVER HOLDER MK7	
B86	F BRAKE ASSEMBLY MK7	0VSA08944
B108	P.S.W F	0VM402629A
B121	WORM MK6	0VM407662
B122	P.S.W C	0VM402626
B123	P.S.W (WORM THRUST) 02130250	0VM403348
B126	PULLEY MK6	0VM407661
B132	CLUTCH ASSEMBLY MK8	0VSA09379A
B133	IDLER ASSEMBLY MK8	0VSA09377
B142	SHAFT LOCK ASSEMBLY	0VSA04642
B144	CLUTCH WASHER MK2	0VM404428
B145	MAIN LEVER ASSEMBLY MK7	0VSA08822
B148	TG CAP MK6	0VM407664C
B300	FL ASSEMBLY MK8	0VSA09361
B302	RACK MK8	0VM202451
D002	FRONT DOOR OPENER MK7	0VM303185G

Ref. No.         Description         Part No.           B304         DOOR OPENER MK7         0VM303148           B308         SLIDER SHAFT MK8         0VM409335           B313         DRIVE GEAR SPRING MK7         0VM408557           B319         CASSETTE SPRING MK8 or         0VM409333           CASSETTE SPRING MK8         0VM409333           B329         HOLDER KICK ARM N MK6         0VM302956           B332         HOLDER ARM SPRING MK6         0VM408062           B339         REEL(S) MK8         0VM303515           B344         CASSETTE GUIDE R MK8         0VM100786           B345         CASSETTE GUIDE L MK8         0VM100785           B347         GUIDE HOLDER (F) MK8         0VM303502           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM303350 <tr< th=""><th>A BB EE</th></tr<>	A BB EE
B313         DRIVE GEAR SPRING MK7         0VM408557.           B319         CASSETTE SPRING MK8 or OVM409333         0VM409333           B329         HOLDER KICK ARM N MK6         0VM302956           B332         HOLDER ARM SPRING MK6         0VM408062           B339         REEL(S) MK8         0VM303515           B344         CASSETTE GUIDE R MK8         0VM100785           B345         CASSETTE GUIDE L MK8         0VM303522           B347         GUIDE HOLDER(F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or OVM409329         0VM409329           SLIDER GEAR MK8         0VM302969           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202453           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	A BB EE A
B319         CASSETTE SPRING MK8 or CASSETTE SPRING MK8         0VM409333 0VM409333           B329         HOLDER KICK ARM N MK6         0VM302956 0VM408062           B332         HOLDER ARM SPRING MK6         0VM408062           B339         REEL(S) MK8         0VM303515           B344         CASSETTE GUIDE R MK8         0VM100786           B345         CASSETTE GUIDE L MK8         0VM100785           B347         GUIDE HOLDER(F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202453           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	BB EEE
B319         CASSETTE SPRING MK8 or CASSETTE SPRING MK8         0VM409333 0VM409333           B329         HOLDER KICK ARM N MK6         0VM302956 0VM408062           B332         HOLDER ARM SPRING MK6         0VM408062           B339         REEL(S) MK8         0VM303515           B344         CASSETTE GUIDE R MK8         0VM100786           B345         CASSETTE GUIDE L MK8         0VM100785           B347         GUIDE HOLDER(F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202453           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	BB EEE
CASSETTE SPRING MK8 0VM409333  B329 HOLDER KICK ARM N MK6 0VM302956  B332 HOLDER ARM SPRING MK6 0VM408062  B339 REEL(S) MK8 0VM303515  B344 CASSETTE GUIDE R MK8 0VM100785  B345 CASSETTE GUIDE L MK8 0VM100785  B347 GUIDE HOLDER(F) MK8 0VM303522  B348 GUIDE HOLDER R MK8 0VM303502  B350 SLIDER GEAR MK8 or 0VM409329  SLIDER GEAR MK8 0VM409329  SLIDER GEAR MK8 0VM302969  B352 CASSETTE DRIVE GEAR(N) MK6 0VM302969  B353 CASSETTE PLATE SUB ASSEMBLY MK8 0VSA09368  B354 SLIDER(R) MK8 0VM202454  B355 SLIDER(L) MK8 0VM202453  B358 CAM MK7 0VM100724  B359 CLEANER LEVER MK7 0VM303350  COMM303350   BB EE	
B329         HOLDER KICK ARM N MK6         0VM302956           B332         HOLDER ARM SPRING MK6         0VM408062           B339         REEL(S) MK8         0VM303515           B344         CASSETTE GUIDE R MK8         0VM100785           B345         CASSETTE GUIDE L MK8         0VM303522           B347         GUIDE HOLDER(F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	B B E E E E
B332         HOLDER ARM SPRING MK6         0VM408062           B339         REEL(S) MK8         0VM303515           B344         CASSETTE GUIDE R MK8         0VM100786           B345         CASSETTE GUIDE L MK8         0VM100785           B347         GUIDE HOLDER (F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	B E E E
B339         REEL(S) MK8         0VM303515           B344         CASSETTE GUIDE R MK8         0VM100786           B345         CASSETTE GUIDE L MK8         0VM100785           B347         GUIDE HOLDER R MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	E E A A
B344         CASSETTE GUIDE R MK8         0VM100786           B345         CASSETTE GUIDE L MK8         0VM100785           B347         GUIDE HOLDER (F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	E E I I I I
B345         CASSETTE GUIDE L MK8         0VM100785           B347         GUIDE HOLDER (F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	E H A
B347         GUIDE HOLDER(F) MK8         0VM303522           B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	
B348         GUIDE HOLDER R MK8         0VM303502           B350         SLIDER GEAR MK8 or         0VM409329           SLIDER GEAR MK8         0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	: 
B350         SLIDER GEAR MK8 or SLIDER GEAR MK8         0VM409329 0VM409329           B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969 0VSA09368           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368 0VM202454           B354         SLIDER(R) MK8 0VM202454         0VM202454 0VM202453           B358         CAM MK7 0VM100724         0VM100724 0VM303350           B359         CLEANER LEVER MK7 0VM406123         0VM406123	i iA
SLIDER GEAR MK8	A A
B352         CASSETTE DRIVE GEAR(N) MK6         0VM302969           B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	A k
B353         CASSETTE PLATE SUB ASSEMBLY MK8         0VSA09368           B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	
B354         SLIDER(R) MK8         0VM202454           B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	<b>.</b> <b>.</b>
B355         SLIDER(L) MK8         0VM202453           B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	<b>,</b>
B358         CAM MK7         0VM100724           B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	
B359         CLEANER LEVER MK7         0VM303350           B360         CLEAN ROLLER MK4         0VM406123	ı
B360 CLEAN ROLLER MK4 0VM406123	
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B365 RADIATOR PLATE MK7 0VM408563	1
B401 VH CONNECTOR 9A MK7 0VM303176	í
B402 ACH-9B MK6 0VM407672	
B403 ACH CONNECTOR A MK7 0VM303177	J
B404 ACH CONNECTOR B MK7 0VM408582	!
B405 P.S.W CUT 1.6X4.0X0.5T 0VM408485	Α
B406 SENSOR GEAR MK7 0VM408575	i
B407 M GEAR MK6 0VM407666	Α
B409 EJECT SPRING MK7 0VM408716	į
B410 PINCH ROLLER ASSEMBLY MK7 0VSA08809	
B411 PINCH SPRING MK7 or 0VM408550	
PINCH SPRING MK8 0VM409340	
B412 S BRAKE LEVER MK7 0VM303150	
B413 M BRAKE T SUB ASSEMBLY MK7 0VSA09222	
B414 M BRAKE S ASSEMBLY MK7 0VSA08814	
B415 S BRAKE L SPRING MK7 0VM408556	
B416   M BRAKE T SPRING MK7   0VM408588   B417   TENSION SPRING MK8   0VM409452	
B418	
B420	
B422 SWV PCB ASSEMBLY MK8/MODE SW. 0VSA09408	
B423 SHIELD, CYLINDER U17 FTZ 0VM202352	
B425 LOCK LEVER SPRING MK7 0VM408555	
B426 KICK PULLEY MK6 0VM407663	
B427 KICK SPRING MK6 0VM407701	
B428 P.S.W CUT 1.6X4.0X0.5T 0VM408485	
B435 F BRAKE SPRING MK7 0VM408722	
B460 BT SPRING MK7 0VM408551	
B461 MAIN LEVER SPRING MK8 or 0VM409494	
MAIN LEVER SPRING MK7 0VM408554	
B462 PRISM(L2) MK8 0VM409371	
B463 PRISM(R2) MK7 0VM409176	В
B464 CASSETTE DRIVE LEVER SUB ASSEMBLY 0VSA08827. MK7	
B465 INSULATION COVER MK8 0VM303517	
B468 SOFT SPRING A MK7 0VM409214	
B470 TAPE GUIDE ARM ASSEMBLY MK8 0VSA09358	
B471 CASSETTE GUIDE R ASSEMBLY MK8 0VSA09363	
B472 SLIDER R ASSEMBLY MK8 0VSA09365	

Ref. No.	Description	Part No.
B473	SLIDER L ASSEMBLY MK8	0VSA09366
B474	CASSETTE DRIVE LEVER ASSEMBLY MK7	0VSA08813A
B475	BT ARM ASSEMBLY MK7	0VSA08815
B476	REC ARM ASSEMBLY MK7	0VSA08819
B480	CLEANER ASSEMBLY MK7	0VSA09032
CL281	PARALLEL WIRE 2P AWG26/GREY/UL2651	WX1N8002-001
L1051	SCREW, S-TIGHT M2.6X6 PAN HEAD +	GPMS9060
L1053	SCREW PRISM MK7	0VM409038
L1063	SCREW, S-TIGHT M2.6X4 PAN HEAD +	GPMS9040
L1081	SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
L1101	SCREW, P-TIGHT 3X10 BIND HEAD+	GBMP3100
L1114	SCREW, P-TIGHT M2X6 WASHER HEAD+	GCMP2060
L1151	SCREW, SEMS M3X4 PAN HEAD +	CPM33040
L1191	SCREW, P-TIGHT M2.6X12 WASHER HEAD+	GCMP9120
L1321	P-TIGHT SCREW 3X8 BIND + CHROME	GBMP3080
L1341	SCREW, P-TIGHT M2.6X8 BIND HEAD+	GBMP9080
L1342	SCREW, P-TIGHT M2.6X6 BIND HEAD+	GBMP9060
L1402	SCREW, P-TIGHT M2X6 WASHER HEAD+	GCMP2060
L1403	SCREW, P-TIGHT M3X10 WASHER HEAD+	GCMP3100
L1406	SCREW, S-TIGHT M2.6X4 CUP HEAD+	GCMS9040
L1407	SCREW, S-TIGHT M2.6X8 PAN HEAD +	GPMS9080
L1410	SCREW, P-TIGHT 3X25 BIND HEAD+	GBMP3250
L1411	SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
L1412	SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
L1450	SCREW, SEMS M2.6X5 PAN HEAD+	CPM39050
L1451	SCREW:SLIDER R MK7	0VM408853

# Mode SW CBA (SWV)

Ref. No.	Description	Part No.
	MODE SW CBA (SWV)	0VSA09408
R281	CARBON RES. 1/4W G 3.6k Ω or	RCX4GATZ0362
	CARBON RES. 1/6W G 3.6k $\Omega$	RCX6GATZ0362
R282	CARBON RES. 1/4W G 1.5k Ω or	RCX4GATZ0152
	CARBON RES. 1/6W G 1.5k Ω	RCX6GATZ0152
R283	CARBON RES. 1/4W G 10k Ω or	RCX4GATZ0103
	CARBON RES. 1/6W G 10k Ω	RCX6GATZ0103
R284	CARBON RES. 1/4W G 22k Ω or	RCX4GATZ0223
	CARBON RES. 1/6W G 22k Ω	RCX6GATZ0223
R285	CARBON RES. 1/4W G 470 Ω or	RCX4GATZ0471
	CARBON RES. 1/6W G 470 Ω	RCX6GATZ0471
SW281	MODE SWITCH HMW0420-910010 or	SSR0104HD004
	MODE SWITCH SSS-27MD	SSR0104KB002